

Krishi Vigyan Kendra, Manjhi Saran
DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL
UNIVERSITY, PUSA



ANNUAL REPORT

2023

Chief Editor : Dr. Abhay Kumar Singh

Editors : Dr. Saurabh Shankar Patel
: Dr. Ratul Moni Ram
: Dr. Kanhaiya Lal Regar
: Dr. Jitendra Chandra Chandola
: Dr. Vijay Kumar

PROFORMA FOR ANNUAL REPORT 2023 (1st January- 31st December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
KVK Saran, Bihar	9198985483 (M)		head.kvk.manjhi@rpcau.ac.in Website: www.saran.kvk4.in

1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Dr. Rajendra Prasad Central Agricultural University Pusa, Bihar	06274240226 (VC Cell) 06274240251 (DEE)		dee@rpcau.ac.in vc@rpcau.ac.in psvc@rpcau.ac.in nodalkvk@rpcau.ac.in

1.3. Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Abhay Kumar Singh		9198985483	head.kvk.manjhi@rpcau.ac.in , kvksaran@yahoo.co.in , kvksaran@gmail.com

1.4. Year of sanction of KVK: **F No-18-23/96-AE I 24.03.2006**

1.5 Year of Start of KVK: **2006**

1.6. Staff Position (as on 31st December 2023)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/ Others)
1.	Senior Scientist& Head	Dr. Abhay Kumar Singh	Senior Scientist and Head	Animal Science	143600	16.07.2019	Permanent	Others
2.	Subject Matter Specialist	Dr. Saurabh Shankar Patel	S.M.S.	Post-Harvest Technology	63100	12.10.2018	Permanent	Others
3.	Subject Matter Specialist	Dr. Jitendra Chandra Chandola	S.M.S.	Horticulture (Pomology)	63100	13.12.2018	Permanent	SC
4.	Subject Matter Specialist	Dr. Kanhaiya Lal Regar	S.M.S.	Soil Science	63100	23.04.2019	Permanent	SC
5.	Subject Matter Specialist	Dr. Ratul Moni Ram	S.M.S.	Plant Protection	57800	08.03.2022	Permanent	SC
6.	Programme Assistant	Dr. Vijay Kumar	Programme Assistant	Soil Science	38700	28.11.2017	Permanent	OBC
7.	Accountant / Superintendent	Mr. Amit Anand	Assistant	Chemistry Honors	38700	20.10.2017	Permanent	Others
8.	Stenographer	Mr. Mirtunjay Kumar	Stenographer	Graduate (Physics)	26300	22.02.2018	Permanent	Other (Deputed to VC-Cell Pusa)
9.	Driver	Mr. Deepak Kumar	Tractor Driver	Graduate (History)	21700	27.02.2021	Permanent	Others
10.	Driver	Mr. Umashankar Kumar	Jeep Driver	Graduate (History)	21700	27.02.2021	Permanent	OBC
11.	Supporting staff	Mr. Ravi Ranjan Kumar	Skill Supporting Staff	Graduate	18000	01.03.2021	Permanent	Others
12.	Supporting staff	Mr. Rakesh Kumar	Skill Supporting Staff	12 th	18000	16.03.2021	Permanent	Others

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	2
2.	Under Demonstration Units	2
3.	Under Crops	11.9
4.	Orchard/Agro-forestry	4
5.	Others with details	0
	Total	19.90

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					Y	423.25	Y	ICAR
2.	Farmers Hostel					Y	305	Y	ICAR
3.	Staff Quarters (6)					Y	71.12 (PC and FM) 120.32 (Technical-2 unit) 78 (Supporting-2 unit)	Y	ICAR
4.	Piggery unit	N							
5	Fencing					Y		Y	ICAR
6	Rain Water harvesting structure	N							
7	Threshing floor					Y	130	Y	ICAR
8	Farm godown					Y	78	Y	ICAR
9.	Dairy unit	N							
10.	Poultry unit	N							
11.	Goatary unit	N							
12.	Mushroom Lab					Y		Y	ICAR
13.	Mushroom production unit					Y	30m X 20M	Y	ICAR
14.	Shade house								
15.	Soil test Lab	N							
16	Seed Hub godown					Y		Y	ICAR
17.	Poly house	Y					200	Y	Bihar govt.
18.	Greenhouse shed net	Y					200	Y	Bihar Govt.
19.	Solar tree with submersible pump						2 nos.	Y	DRPCA

20.	Azolla unit							Y	
21.	Vermi-compost unit						28	Y	

* If not in use then since when and reason for non-use

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Jeep Bolero	27.06.2006 Transferred to KVK Saran on 15.06.2007 from KVK Bhagalpur	450000.00	194422	Needs replacement Not in working condition
Tractor (2 Nos.)	(1) 05.12.2006 (2) 16.02.2019 (3) 29.07.2021	(1) 475833 (2) 612036 (3) 612425	(1) 4137 (2) 1212 (3) 1081	(1) Needs Repairing (2) Newly Purchased (3) Newly purchased
Motorcycle (2 Nos)	August 2016	120000.00	(1) 47975 (2) 30011	Good

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Computer CPU, Monitor, LaserJet 1020 printer, Business jet 1000 printer and scan jet	2007-08	54963	Not Working	ICAR
AC (2 Nos.)	2019-20	77514.00	Good	ICAR
b. Farm machinery				
Pump set (7.5 HP) with all the accessories	2007-08	35285	Good	ICAR
Zero Tillage Machine	2007-08	Supplied by RCT Project of RAU	Needs Repairing	ICAR
Furrow Irrigated Raised Bed Planter	2007-08		Good	ICAR
Knapsack sprayer	2007-08	1190	Good	ICAR
Gatore sprayer	2007-08	3250	Good	ICAR
Pump set (5HP) with all accessories)	2008-09	25000	Needs Repairing	ICAR
Generator	2008-09	31540	Good	ICAR
Thresher	2008-09	99320	Fully need repairing	ICAR
Reaper+Bund Maker	2008-09	85840	Good	ICAR
Sugarcane Cutter Planter	2008-09	99320	Need repairing	ICAR
Rotavator	2008-09	95160	Need repairing	ICAR
Reaper	2008-09	75400	Need repairing	ICAR
Bund Maker	2008-09	10140	Good	ICAR
Bucket leveler	2012-13		Good	ICAR
Zero tillage Machine	Supplied by Government of Bihar			
Paddy Transplanter	Supplied by Government of Bihar			
Mobile Seed Processing Plant	Supplied by Government of Bihar			

Rotary Plough	2012-13			
Multi crop Thresher	2012-13			
Mobile Seed Processing Plant (Seed Hub)	2017-18	1500000	Good	ICAR
Tractor	2019-2020	612036	Good	ICAR
c. AV Aids				
Computer CPU, Monitor, printer	2010-11		Not Working	ICAR
Digital Camera	2008-09	24880	Not Working	ICAR
Panasonic Tough book	2018-19	21500	Not Working	Dr. RPCAU Pusa
HP Copier	2019-20	65400	Not Working	ICAR
HP Color Printer	2019-20	21998	Not Working	ICAR
Projector	2019-20	76140	Good	ICAR
Inverter	2020-21	10,000	Good	ICAR
Battery	2020-21	15,000	Good	ICAR
Battery	2020-21	14,995	Good	ICAR
Crompton Fan	2020-21	14,320	Good	ICAR
Acer Desktop	2020-21	1,19,000	Good	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Zero-till-ferti-seed drill-1	2011-12		Need repairing	ICAR
Conno-weeder and Marker 10 each	2011-12		Good	ICAR
Bund Maker-2	2011-12		Good	ICAR
Furrow Irrigated Raised Bed Planter-1	2011-12		Need repairing	ICAR
Furrow Irrigated Raised Bed Planter-1	2011-12		Need repairing	ICAR
Power sprayer -6	2011-12		Good	ICAR
Rotavator-1	2011-12		Good	ICAR
Leveler-2	2011-12		Good	ICAR
Self-propelled Reaper-1	2012-13		Need repairing	ICAR
Cultivator-1	2012-13		Good	ICAR
Disc Harrow	2012-13		Good	ICAR
Zero-till-ferti-seed drill-1	2012-13		Need repairing	ICAR
Balance	2010-13		Good	ICAR
Power weeder	2019-20	21280	Good	ICAR
One-wheel garden trolley	2019-20	10,000	Good	ICAR
Brush cutter	2019-20	19,723	Good	ICAR
Cultivator	2020-21	27,776	Good	ICAR
Zero till seed cum fertilizer drill	2020-21	43,120	Good	ICAR
Mini daal mill	2020-21	90,000	Good	ICAR
Rotavator	2020-21	1,14,918	Good	ICAR
Multicrop thresher	2020-21	1,28,800	Good	ICAR
Reversible MB plough	2020-21	1,14,240	Good	ICAR
Potato planter	2020-21	97,500	Good	ICAR
Power weeder	2020-21	47,600	Good	ICAR
Multicrop planter	2020-21	99,799	Good	ICAR
Self-propelled reaper cum binder	2020-21	5,20,000	Good	ICAR
Potato digger	2020-21	1,17,500	Good	ICAR
Self-propelled rice transplanter	2020-21	2,22,800	Good	ICAR
Tractor operated laser land leveler	2021-22		Good	ICAR
Drip Irrigation system (in farmers field)	2021-22	68,683		

Solar mounted boat	2021-22	842502	Good	ICAR
Tractor operated reaper cum binder	2021-22	342000	Good	ICAR
Hydraulic tractor trailer	2021-22	143400	Good	ICAR
Happy seeder	2021-22	143000	Good	ICAR
Tractor operated boom type sprayer	2021-22	-	Good	ICAR
Tractor drawn leveler	2021-22	-	Good	ICAR
Power tiller with common attachment	2021-22	-	Good	ICAR
Disc plough	2021-22	-	Good	ICAR
Rice-wheat seeder (10 set)	2021-22	-	Good	ICAR
Zero-till seed cum fertilizer	2021-22	72000	Good	ICAR
Happy seeder 10 tynes	2021-22	140000	Good	ICAR

1.8. Details SAC meeting* conducted in the year

SAC Meeting was not conducted for the year 2023

2.a. District level data on agriculture, livestock and farming situation (2022)

Sl. No .	Item	Information																		
1	Major Farming system/enterprise	Crop Production is the major Farming System of Saran district with majority of farms having Rice-Wheat cropping system followed by Rice-Maize + Potato, Rice-Maize, Rice-Rapeseed-Mustard and Red Gram as sole crop. Summer crops are generally not taken due to social problems of grazing by Blue bulls and also by untied pet animals wandering in search of green fodder. The district is specifically popular for cereals like wheat in the Rabi season (Covering an area of more than 54% of the total cultivable area.) and Paddy in the Kharif season (Covering about 36% of the total cultivable area). Maize occupies the third position after wheat and rice and is more or less equally important in both Kharif and Rabi (about 18% of the total cultivated area in Rabi and about 16% of the total cultivated area in Kharif). Pulses occupy about 4 % of the total cultivated area in Rabi and about 6 % the total cultivated area in the Kharif season, Red Gram being the most popular pulse crop. Likewise, the oilseeds occupy only 4 % of the total cultivated area in Rabi and only 0.2% in the kharif season. Animal Husbandry is coming up as new enterprises in the district followed by fishery and poultry. Since, the farmers has very small land holding, these enterprises are flourishing in a big way and our action plans are being devised from time to time keeping in view of these changes in cropping systems. <table><tr><th>S. No</th><th>Farming system/enterprise</th></tr><tr><td>1.</td><td>Crop Production + Animal Husbandry</td></tr><tr><td>2.</td><td>Crop Production</td></tr><tr><td>3.</td><td>Animal Husbandry</td></tr><tr><td>4.</td><td>Crop Production +Fishery</td></tr><tr><td>5.</td><td>Crop Production +Poultry</td></tr><tr><td>6.</td><td>Crop Production +Vegetable Production</td></tr><tr><td>7.</td><td>Crop Production +Fruit Production</td></tr><tr><td>8.</td><td>Poultry</td></tr></table>	S. No	Farming system/enterprise	1.	Crop Production + Animal Husbandry	2.	Crop Production	3.	Animal Husbandry	4.	Crop Production +Fishery	5.	Crop Production +Poultry	6.	Crop Production +Vegetable Production	7.	Crop Production +Fruit Production	8.	Poultry
S. No	Farming system/enterprise																			
1.	Crop Production + Animal Husbandry																			
2.	Crop Production																			
3.	Animal Husbandry																			
4.	Crop Production +Fishery																			
5.	Crop Production +Poultry																			
6.	Crop Production +Vegetable Production																			
7.	Crop Production +Fruit Production																			
8.	Poultry																			
2	One district one product (NITI Ayog)	Tomato																		

3	Agro-climatic Zone	Saran district lies in the Middle-Gangetic Plain with subtropical climate characterized by hot summer, wet monsoon and dry winter. The average annual rainfall is 1140 mm. The maximum temperature varies from 26 to 35° C but during summer months the temperature may exceed than 45° C with hot westerly winds from March to June. The minimum temperature varies from 10 to 16° C but occasionally it may go below 2-3° C. The relative humidity at 7 A.M. varies from 50 to 75 % in summer months which rises up to 97 % or more during monsoon and winter.						
4	Agro ecological situation	Agro ecological situation		Characteristics				
		AES I	Upland rain fed saline lands	Alluvial saline soils with Poor drainage and undulating topography, high pH soils (7.5 to 8.2) with white and fluffy outgrowths				
		AES II	Upland irrigated lands	Alluvial plain lands with Loamy silt soils under irrigated conditions subject to periodical inundation				
		AES III	Upland rain fed lands	Alluvial plain lands with Loamy silt soils subject to periodical inundation				
		AES IV	Irrigated medium lands	Alluvial plain lands with Loamy silt soils or silty loam soils				
		AES V	Low lands	Bowl shaped depressions having heavy clay soils, generally under water logged conditions where there is no source of drainage, Cracks develop when dry due to high sodium content, Deficiency of available Ca, N and Zn				
		AES VI	Diara lands	Light sandy soils with poor water holding capacity, Flooded during monsoons				
5	Soil type	S. No	Land situations	Soil type	Characteristics	Area (ha)	Percent (%) of the total	
		1.	Upland	Alluvial Saline soils	Poor drainage and undulating topography, high pH soils (7.5 to 8.2) with white and fluffy outgrowths, rain fed conditions	67538	33.88	
		2.	Upland	Alluvial soils	Alluvial plain lands with Loamy silt soils or silty loam soils rich in organic carbon and other nutrients under irrigated conditions			
		3.	Medium land	Alluvial soils	Alluvial plain lands with Loamy silt soils or silty loam soils	36630	18.37	
		4.	Low land	Heavy clay soils with sodicity	Cracks develop when dry due to high sodium content, Deficiency of available Ca, N and Zn	65571	32.95	
		5.	Diara land	Light sandy soils	Poor water holding capacity, Poor nutrient holding capacity Flooded during monsoons	29561	14.80	
		Total				199300	100.00	
6	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables,	Crops	Kharif		Rabi		Total	
			Producti on (q)	Productiv ity (q/ha)	Producti on (q)	Productivit y (q/ha)	Production (q)	Productivity (q/ha)
		Wheat	-	-	2171785	20.10	2171785	20.10
		Paddy	1343021	17.3	-	-	1243057	17.3
		Maize	501943	14	711925	22.6	576453	18.3
		Pulses	50512	7	145882.8	12.6	643044	9.8

	fruits and others	Oilseeds	2905	7.38	59171.2	8.2	113465	7.6	
		Vegetables	785036	111	12645	2271042	72584	148.3	
		Orchards and trees	39610.9	9.59	38620.9	9.34	3154	10.18	
		Sugarcane	-	-	54842	790	54842	790	
		Potato	-	-	2854419	287	2854419	287	
7	Mean yearly temperature, rainfall, humidity of the district	Month		Temperature °C		Relative Humidity (%)		Rainfall (mm)	
				Maximum	Minimum	Maximum	Minimum		
		January 2023		25.80	7.19	94.08	47.89	0.00	
		February 2023		27.51	10.78	84.78	31.91	0.00	
		March 2023		35.96	18.37	65.30	20.71	0.00	
		April 2023		39.65	22.61	52.55	12.99	0.00	
		May 2023		36.09	25.23	80.98	53.29	269.75	
		June 2023		35.36	27.66	87.35	48.41	544.75	
		July 2023		34.51	27.86	88.83	68.00	194.25	
		August 2023		33.94	26.96	90.61	79.24	54.50	
		September 2023		32.73	26.36	91.67	72.74	24.50	
		October 2023		33.05	22.05	92.09	55.30	251.00	
		November 2023		32.41	15.00	90.16	30.91	0.00	
		December 2023		26.78	10.80	98.20	98.70	6.70	
8	Production of major livestock products like milk, egg, meat etc.	Live stock	Number		Live stock	Number			
		Plough Animals	168189		Goat	206123			
		Cattle	232814		Pigs	126541			
		Cross bred	28994		Crossbred	1003			
		Indigenous	208806		Hens	47592			
		Buffaloes	401625		Desi	38823			
		Sheep	12486		Improved	218429			
		Cross bred	3694		Ducks	2062			
		Indigenous	7918		Turkey and others	302320			

Note: Please give recent data only

2.b. Details of operational area / villages (2023)

Sl. No.	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1.	Manjhi	Nandpur	Paddy, wheat, potato, mustard, Red gram, Animal Husbandry	Lack of information on high yielding varieties, Lack knowledge of Product Production Procedure	Productivity enhancement of cereals, pulses and oilseeds
2.	Dariyapur	Darihara	Paddy, wheat, maize, potato, mustard, Lentil, Gram	High dependence on chemical fertilizer and insecticides and pesticides	IPM and INM in cereals, pulses and oilseeds
3.	Manjhi	Sitalpur	Paddy, wheat, maize, potato, mustard, Red gram	High cost of cultivation and low return, lack of knowledge for safe and easy method of insect pest management	Resource Conservation Technology for sowing of different crops, IPM in cereals, pulses and oilseeds

4.	Nagra	Affaur	Paddy, wheat maize, potato, Red gram, Vegetables	Lack of information on soil testing, Lack of knowledge and non-availability of bio-fertilizers and bio-pesticides, lack of suitable technology for drought condition	Natural Resource management and INM and Climate Resilient Technology
5.	Manjhi	Hansrajpur	Paddy, wheat maize, potato	Lack of information on soil testing, Lack of knowledge and non-availability of bio-fertilizers and bio-pesticides, Wastage of cow dung manures, Pressure on women due to labor deployment	Natural Resource management and INM, Organic Farming, Drudgery reduction in women
6.	Jalalpur	Majhawalia	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
7.	Jalalpur	Ramnagar	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
8.	Manjhi	Majhanpura	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
9.	Manjhi	Dumri	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
10.	Manjhi	Dharhara	Paddy, wheat maize, potato	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds
11.	Revilganj	SitabDiara	Paddy, wheat maize, potato, mustard, Red gram	High cost of cultivation and low return, lack of knowledge for safe and easy method of insect pest management	Resource Conservation Technology for sowing of different crops
12.	Ekma	Atarsan	Paddy, wheat, maize, potato, Red gram, Rape seed and Mustard	Low productivity of paddy, low productivity and income from maize, Heavy infestation of weed in paddy and other crops	Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds.

13.	Chapra Sadar	NewajiTola	Paddy, wheat, maize, potato, mustard, Lentil, Gram	High dependence on chemical fertilizer and insecticides and pesticides	IPM and INM in cereals, pulses and oilseeds
14.	Dighwara	Gopalpur	Paddy, wheat maize, potato, mustard, Red gram	High cost of cultivation and low return, lack of knowledge for safe and easy method of insect pest management	Resource Conservation Technology for sowing of different crops, Productivity enhancement of cereals, pulses and oilseeds, IWM in cereals, pulses and oilseeds.
15.	Chapra Sadar	Dumri/ Newaji Tola	Paddy, wheat, maize, potato, mustard, Lentil, Gram	High dependence on chemical fertilizer and insecticides and pesticides	IPM and INM in cereals, pulses and oilseeds
16.	Sonpur	Sahpur Diara, Pahleja	Vegetables	High cost of cultivation, high fertilizer application	IPM and INM in vegetables

2. c. Details of village adoption programme:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2023) for its development and action plan

Name of village	Block	Action taken for development
Nandpur	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Darhara	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Sitalpur	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Dumri	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Bareja	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Majhanpura	Manjhi	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
SitabDiara	Revilganj	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Majhawalia	Jalalpur	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Ramnagar	Jalalpur	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits

Kopa-samhauta	Jalalpur	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Affaur	Nagra	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Atarsan	Ekma	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Karah	Baniyapur	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Fulwaria	Garkha	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
NewajiTola	Chapra Sadar	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Darihara	Dariyapur	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits
Gopalpur	Sonpur	FLD, OFT, CFLD, Seed Production under Seed Hub, Training, Field Days, Awareness Programme on Digitalization, Vigilance, Swachhata Abhiyan, PPV and FR, SMS, Soil Tests, Diagnostic Visits

2.1 Priority thrust areas

S. No	Thrust area
1.	Productivity enhancement of cereals, pulses and oilseeds.
2.	Enhancement of Area, Production and Productivity of Pulses and Oilseeds especially in the chaur lands and Diara lands.
3.	Promotion of Organic, Natural Farming and vermicomposting.
4.	Promotion of horticulture for making the rural youth self-employed.
5.	Productivity enhancement of maize in terms of quality and nutritive value.
6.	Promotion of Climate Resilient Technology
7.	Promotion of Natural farming
8.	Promotion of green fodder those enabling multicuts at farmers holding.
9.	Creation of Job opportunities for landless labours through skill development
10.	Development of livestock and pond based IFS model at farmer's holding.
11.	Women Empowerment through agri and allied technological interventions for sustainable income generation activities

3. TECHNICAL ACHIEVEMENTS

3.1. Summary details of target and achievement of mandatory activities by KVK during the year 2023

OFT												FLD													
No. of technologies tested:												No. of technologies demonstrated:													
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers											
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement										
			SC		ST		Others		Total						SC		ST		Others		Total				
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T		
10	10	70	5	0	0	0	65	0	70	0	70	10	10	100	4	2	0	0	8	2	6	86	8	9	4

Training												Extension activities											
Number of Courses		Number of Participants										Number of activities				Number of participants							
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
124	110	3100	45	63	6	6	18	20	23	27	25	1500	1114	25000	11	297	3	2	166	599	18	36	21
			4				45	9	05	8	83				22		1	8	01	1	04	16	65
																	9				2		8

Impact of capacity building												Impact of Extension activities											
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)										Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									
Target	Achievement	SC		ST		Others		Total			Target	Achievement	Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T					M	F	M	F	M	F	M	F	T
3100	2583	3	2	0	0	48	16	51	18	69	25000	21658	-	-	-	-	-	-	-	-	-	-	-

Seed production (q)			Planting material (in Lakh)		
Target (Crop and variety)	Achievement (q)	Sold (q)	Target (crop and variety)	Achievement	Sold (number)
Paddy (Rajshree)	193.25	DSF, Sholi	0.50	0.35	0.35

Wheat (WB-02)	41.0				
Pea (HUDP-15)	2.5				
Lentil (IPL-220)	3.22				
Rai (R. Suflam)	9.0				
Potato (Kufri chipsona, Kufri sinduri)	27.5				
Linseed (Sekhar)	0.50				

Livestock strains (in no's) and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0	0	0.005	0.00267

* Give no. only in case of fish fingerlings

3.2 ACHIEVEMENTS ON TECHNOLOGIES ASSESSED AND REFINED (OFT)

3.2. 1 Technology Assessed by KVK (Discipline wise)

A	Technologies assessed under various crops (Cereal Crop Production)			
	Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	Integrated Nutrient Management	2	14	14
2	Varietal Evaluation			
3	Integrated Pest Management	1	7	7
4	Integrated Crop Management	1	7	7
5	Integrated Disease Management	1	7	7
6	Small Scale Income Generation Enterprises	0	0	0
7	Weed Management	0	0	0
8	Resource Conservation Technology	1	7	7
9	Farm Machineries	0	0	0
10	Integrated Farming System	0	0	0
11	Seed / Plant production	0	0	0
12	Post Harvest Technology / Value addition	1	7	7
13	Drudgery Reduction	0	0	0
14	Storage Technique	0	0	0
15	Others (Pl. specify)	0	0	0
16	Cropping Systems	0	0	0
17	Farm Mechanization	0	0	0
18	Others	0	0	0
	Total	7	49	49
B	Technologies assessed under various crops (Hort crops.)			
	Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	Integrated Nutrient Management	0	0	0
2	Varietal Evaluation	0	0	0
3	Integrated Pest Management	0	0	0
4	Integrated Crop Management	2	14	14
5	Integrated Disease Management	0	0	0
6	Small Scale Income Generation Enterprises	0	0	0
7	Weed Management	0	0	0

8	Resource Conservation Technology	1	7	7
9	Post-harvest Technology / Value addition	0	0	0
10	Others if any specify	0	0	0
C	Technologies assessed under livestock & Fisheries by KVKs			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Disease & Health Management	0	0	0
2	Breeding management/Evaluation of Breeds	0	0	0
3	Feed and Fodder management	0	0	0
4	Nutrition Management	0	0	0
5	Production and Management	0	0	0
6	Processing and Value addition	0	0	0
7	Fisheries management	0	0	0
8	Others (waste, ITK etc)	0	0	0
	Total	0	0	0
D	Technologies assessed under miscellaneous enterprises by KVKs			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Drudgery reduction	0	0	0
2	Entrepreneurship Development	0	0	0
3	Health and nutrition	0	0	0
4	Processing and value addition	0	0	0
5	Energy conservation	0	0	0
6	Small-scale income generation	0	0	0
7	Storage techniques	0	0	0
8	Household food security	0	0	0
9	Organic farming	0	0	0
10	Agroforestry management	0	0	0
11	Mechanization	0	0	0
12	Resource conservation technology	0	0	0
13	Value Addition	0	0	0
14	Others	0	0	0
	Total	0	0	0
E	Technologies assessed under various enterprises for women empowerment			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations

1	Drudgery Reduction			
2	Entrepreneurship Development	0	0	0
3	Health and Nutrition	0	0	0
4	Value Addition	0	0	0
5	Others	0	0	0
	Total	0	0	0

3.2 OFT (All discipline)

OFT-01 (Agricultural Engineering)

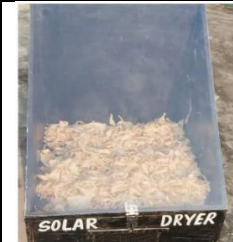
1.	Title of On farm Trial	Assessment of different packaging materials on the shelf life of oyster mushroom
2.	Problem diagnosed	Mushroom is now becoming popular vegetable in India and it is very perishable due to their high aspiration rate.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmer's Practice (FP): No packaging Technology option 1: Suitable punnet (wash in plain water, pre-treatment with 0.05 % KMS) Technology option 2: Biodegradable LDPE bag (40-60 micron/100-150 gauge) wash in plain water, pre-treatment with 0.05 % KMS)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	G. B. Pant University of Agriculture and Technology, Pantnagar, UK
5.	Production system and thematic area	Value addition
6.	Performance of the Technology with performance indicators	• Colour • Rehydration ratio • Sensory evaluation
7.	Final recommendation for micro level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	• Field visit • Farmers' Interaction and feedback

Result

Table 1: Quality parameters for accessing dried oyster mushroom

Technology option	Rehydration Ratio				Colour				Overall acceptability			
	0 days	30 days	60 days	90 days	0 days	30 days	60 days	90 days	0 days	30 days	60 days	90 days
Farmers Practices: No packaging and dried under sunlight	2.82	2.71	2.55	2.23	6.8	6.3	6.4	6.2	7.1	6.9	6.7	6.5
TO-1 (Suitable punnet (wash in plain water, pre-treatment with 0.05 % KMS and solar dried)	3.85	3.77	3.51	3.28	8.2	8.1	8.1	7.9	8.4	8.2	8.2	8.1

TO-2 (LDPE bag (40-60 micron/100-150 gauge) wash in plain water, pre-treatment with 0.05 % KMS) and solar dried)	3.88	3.71	3.48	3.11	8.3	8.2	8.1	8.0	8.5	8.3	8.2	8.1
SEM	0.03	0.02	0.02	0.02	0.05	0.03	0.04	0.05	0.03	0.03	0.02	0.02
CD (0.05)	NS				0.12				0.09			

			
Solar dried mushroom		Solar dried oyster mushroom in punnet	Solar dried oyster mushroom in LDPE bag

OFT-02 (Agricultural Engineering)

1.	Title of On farm Trial	Assessment of Happy Seeder for wheat sowing under crop residue management
2.	Problem diagnosed	Stable burning issue for the combine harvested field of paddy
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice: Broadcasting (in tilled condition) Technology option 1: Sowing of Wheat by Happy seeder incorporating crop residue Technology option 2: Removal of crop residue and sowing by zero till drill
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	DRPCA, Pusa
5.	Production system and thematic area	Rabi-2022, Crop residue management
6.	Performance of the Technology with performance indicators	Field efficiency, fuel consumption, Yield attributing characteristics, BC Ratio
7.	Final recommendation for micro-level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	- Field visit - Farmers' Interaction and feedback

Result

Table 1: Crop residues management and green-manure incorporation on yield & economics of wheat.

	Yield component	Yield				
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Technology option	No. of effective tillers/hill	No. of grain per ear head	Test wt. (100 grain wt.)	(q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	B:C ratio
Farmers Practices: Broadcasting (in tilled condition)	126.0	34.0	3.40	31.8	34210	67575	40563	1.97
TO-1 (Removal of crop residue and sowing by zero till drill)	153.0	38.0	3.80	34.0	30523	72250	43690	2.36
TO-2 (Sowing of Wheat by Happy seeder incorporating crop residue)	168.0	42.0	3.95	36.1	31230	76712	46662	2.45
CD (5%)	12.3	1.62	NS	1.42	-	-	-	-



Demonstration Field with Farmers

Crop cutting done by KVK, Scientist

Field of wheat sown with zero tillage

OFT-03 (Horticulture)

1.	Title of On farm Trial	Regulation of bearing potential in litchi (<i>Litchi chinensis</i>) through girdling of primary branches in Saran district of Bihar
2.	Problem diagnosed	Litchi (<i>Litchi chinensis</i>) is a major fruit crop of district Saran. But the poor quality of flowering, and fruiting incidence as well as heavy fruit drop and fruit cracking restricts its cultivation. Girdling of 2mm and 3mm diameter on 50 per cent primary branches should be done during the last week of August to the second week of September to suppress vegetative growth before flowering in litchi. Therefore, it is required to produce more flowering panicles, fruit yield, fruit size, TSS and less fruit drop and fruit cracking in Saran district of Bihar.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice: No Girdling Technology 1: Circular girdling 2mm on 50% Primary branches during 1st week of September Technology 2: Circular girdling 3mm on 50% Primary branches during 1st week of September

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	National Research Center on Litchi, Muzaffarpur, Bihar
5.	Production system and thematic area	Agri- Horti System
6.	Performance of the Technology with performance indicators	1-Flowering induced (%) 2- Days to flowering after girdling 3- Fruits/panicles 4- fruit drop and cracking(%) 5-Fruit yield(kg/plant) 6- B: C ratio
7.	Final recommendation for micro-level situation	Circular girdling 2mm on 50% Primary branches during 1 st week of September is recommended
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Diagnostic field visit, one-to one interaction with farmers, supply of reading materials

Result:

The results indicated that significantly higher fruits per panicles (46.87), fruit yield (37.28/ plant), benefit cost ratio (1.57) and lower fruit drop (44.62) and fruit cracking (5.90) were recorded in TO1 (Circular girdling 2 mm on 50% Primary branches) followed TO2.

Technological Option (TO)	Flowering induced (%)	Days to flowering after girdling	Fruits/panicle	fruit drop (%)	fruit cracking (%)	Fruit Yield (Kg/plant)	Gross Cost (Rs.)	Gross Return (Rs.)	Net Return (Rs.)	B:C Ratio
FP : No Girdling	41.06	154.12	26.875	57.75	15.76	9.777	523	586.62	63.62	1.12
TO1 : Circular girdling 2mm on 50 % Primary branches	75.11	160.87	46.875	44.62	5.90	37.285	1423	2237.10	814.10	1.57
TO2 : Circular girdling 3mm on 50 % Primary branches	82.32	166.87	29.87	45.27	6.31	31.24	1423	1874.28	451.28	1.32
CD (0.05)	12.00	7.00	9.00	1.60	1.08	3.90	192.60	1245.60	389.50	0.29



OFT-04 (Horticulture)

1.	Title of On farm Trial	Assessment of proper doses of Paclobutrazol in mitigating irregular bearing in mango
2.	Problem diagnosed	Mango is a major fruit crop of district Saran. But the poor quality of flowering, yield and alternate bearing 21ncidenc restricts its cultivation. Application of Paclobutrazol @ 4g a.i. and 2g a.i./ metre of canopy diameter should be done during the last week of August to the second week of September to suppress vegetative growth before flowering in Mango. Therefore, it is required to produce more Vegetative shoots, Flush length, Canopy Volume, Flowering shoots, Panicle length, Fruit yield and regular bearing in Saran district of Bihar.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice: No use of Paclobutrazol Technology 1: Paclobutrazol @ 1.0 g a. i./ m of the effective canopy (30-45g) in soil. Technology 2: Paclobutrazol @ 1.5 g a. i./ m of the effective canopy (30-45g) in soil. Note: 1. Recording of flowering 21ncidenc in the previous year. 2. Balanced nutrition after the harvest of crops is a prerequisite.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	GBPUAT., Pantnagar
5.	Production system and thematic area	Agri- Horti System
6.	Performance of the Technology with performance indicators	1-Vegetative shoots (%) 2- Flush length (cm) 3- Canopy Volume (m³) 4- Flowering shoots (%) 5- Panicle length 6-Fruit yield(kg/plant) 7- B: C ratio

7.	Final recommendation for micro level situation	Paclobutrazol @ 1.0 g a. i./ m of effective canopy (30-45g) in soil.
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Diagnostic field visit, one-to one interaction with farmers, supply of reading materials

Result

Mango is a major fruit crop of district Saran. But the poor quality of flowering, yield and alternate bearing behavior restricts its cultivation. Application of Paclobutrazol @ 1g a.i. and 1.5g a.i./ meter of canopy diameter should be done during last week of august to second week of September to suppress vegetative growth prior to flowering in Mango. Therefore, it is required to produced more Vegetative shoots , Flush length, Canopy Volume, Flowering shoots, Panicle length, Fruit yield and regular bearing in Saran district of Bihar.

The results indicated that significantly higher flowering shoots (86.9 %) and fruit yield (75.05 kg/plant) was recorded in TO₁ (Paclobutrazol @ 1.0 g a. i./ m of effective canopy (30-45g) in soil.) followed by TO₂(Table 1).

Technological Option (TO)	Vegetative shoots (%)	Flush length (cm)	Flowering shoots (%)	Panicle length (cm)	Fruit yield(kg/plant)	B:C Ratio
FP : No use of Paclobutrazol	5.8	15.9	80.98	21.85	55.78	1:1.36
Tech. 1 : Paclobutrazol @ 1.0 g a. i./ m of effective canopy (30-45g) in soil.	7.2	16.6	86.9	24.47	75.05	1:1.99
Tech. 2 : Paclobutrazol @ 1.5 g a. i./ m of effective canopy (30-45g) in soil	6.0	16.1	85.9	22.15	74.45	1:1.98
CD	0.86	NS	NS	1.89	26.34	0.06

OFT-05 (Horticulture)

1.	Title of On farm Trial	Ex-situ residue management in potato cultivation
2.	Problem diagnosed	Moisture loss is one of an important constraint in obtaining high potato yield.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice: Sowing in ridge and furrow method Technology 1: Sowing of Potato with FYM and Paddy straw (15cm) Technology 2: Sowing of Potato with FYM and Water hyacinth (15cm) (In TO1 and TO2 foliar spray with 10:26:26 N:P:K as basal dose, 45 days after sowing spray with 19:19:19 N:P:K and third spray with 13:0:45 N:P:K)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIVR, Varanasi
5.	Production system and thematic area	Agri- Horti System

6.	Performance of the Technology with performance indicators	1-Germination (%) 2- Growth performance (visual) 3- Disease incidence 4- Weed population 5- Tuber yield 6-Economics 7- B: C ratio
7.	Final recommendation for micro level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Diagnostic field visit, one-to one interaction with farmers, supply of reading materials

Result

Table 1 : Effect of Ex-situ residue management on yield & yield attributes, disease incidence, weed population and economics of potato cultivation.

Treatment	Yield attributes			Disease incidence (%)	Weed population (q/ha)	Tuber yield (q/ha)	Economics			
	Germination percentage	Plant Height (cm)	Number of stem/hill				Cost of cultivation (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
FP	87.6	66.2	3.6	19	1.54	212.4	112400	212400	100000	1.89
TO-1	95.8	71.8	4.1	15	0.75	226.8	97845	226800	128955	2.32
TO-2	96.5	72.4	4.5	14	0.68	236.6	94785	236600	141815	2.50
CD (0.05)	2.38	1.85	0.65	0.34	0.38	11.9	9854.6	12985.4	17678.8	0.21

OFT 06: Soil Science

Title	Improvement of Nitrogen use efficiency in rice
Problem diagnose	Excessive use of chemical fertilizer and spiraling price of urea leads to increase in cost of cultivation.
Details of Technologies selected for assessment/refinement	Farmer Practice: RDF (120:60:40) Kg/ha
	Technological option 1: 50% of RDN & 100% PK + Nano urea @4ml/lt. water (Single spray at pre flowering stage)
	Technological Option 2: 50% of RDN & 100% PK + 2 sprays of Nano Urea at (35 DAS) and (60-65 DAS) @ 4 ml/lt water
Source of technology	OFT Finalization Workshop 2022 held at BAU, Sabour from 01-03 Sep., 2022
Replication	7

Production System & Thematic area	Rice- wheat system & Nutrient use efficiency
Critical input	Seed, Urea, DAP, MOP and Nano urea

Result:

Table 1: Influence of Technological options on yield and yield attributes of Rice

Technological options	Number of effective tiller/m ²	1000 grain yield	Grain Yield (q ha ⁻¹)	Straw Yield (q ha ⁻¹)
FP	385.0	24.4	40.61	54.7
TO- I	351.0	23.6	36.81	47.5
TO- II	407.0	24.7	43.29	57.6
Sem±	9.65	-	1.08	1.35
CD (P=0.05)	29.7	NS	3.34	4.15

Table 2: Influence of Technological options on economics of Rice cultivation

Technological options	Cost of cultivation (Rs ha ⁻¹)	Gross return (Rs ha ⁻¹)	Net return (Rs ha ⁻¹)	B: C Ratio
FP	47453	88652	41199	1.87
TO- I	46187	80356	34169	1.74
TO- II	47724	94502	46778	1.98
Sem±	-	2364	2162	0.03
CD (P=0.05)	NS	7285	6662	0.13

Conclusion: Results indicated that application of TO:II (50% of RDN & 100% PK + 2 sprays of Nano Urea at (35 DAS) and (60-65 DAS) @ 4 ml/ltr water) showed higher yield, yield attributes and BC ratio over TO: I (50% RDN+ Single spray of nano urea at 35 DAS) and RDF (FP) in Rice crop. However, FP (100% RDN) showed at par result along with TO-II (50% RDN+ two spray of Nano urea at 35 and 60-65 DAS).



Fig.1: Technological intervention for Improvement of Nitrogen use efficiency in Rice

OFT: 07 Discipline: Soil Science

Title	Improvement of Nitrogen use efficiency in wheat
Problem diagnose	Excessive use of chemical fertilizer and spiraling price of urea leads to increase in cost of cultivation.
Details of Technologies selected for assessment/refinement	Farmer Practice: RDF (120:60:40) Kg/ha Technological option 1: 50% of RDN & 100% PK + Nano urea @4ml/lt. water (Single spray at pre flowering stage) Technological Option 2: 50% of RDN & 100% PK + 2 sprays of Nano Urea at (35 DAS) and (60-65 DAS) @ 4 ml/lt water
Source of technology	OFT Finalization Workshop 2022 held at BAU, Sabour from 01-03 Sep., 2022
Replication	7
Production System & Thematic area	Rice- wheat system & Nutrient use efficiency
Critical input	Seed, Urea, DAP, MOP and Nano urea

Results:

Table 1: Influence of Technological options on yield and yield attributes of wheat

Technological options	Number of effective tiller/m ²	1000 grain yield	Grain Yield (q ha ⁻¹)	Straw Yield (q ha ⁻¹)
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FP	371.0	42.5	38.70	52.60
TO- I	339.0	41.4	34.50	45.30
TO- II	396.0	42.9	40.60	56.90
Sem±	8.67	-	1.15	1.52
CD (P=0.05)	26.7	NS	3.52	4.69

Table 2: Influence of Technological options on economics of Wheat cultivation

Technological options	Cost of cultivation (Rs ha ⁻¹)	Gross return (Rs ha ⁻¹)	Net return (Rs ha ⁻¹)	B: C Ratio
FP	44939	82238	37299	1.83
TO- I	43618	73312	29694	1.68
TO- II	45249	86275	41026	1.90
Sem±	-	2613	2385	0.04
CD (P=0.05)	NS	8051	7212	0.12

Conclusion: Results indicated that application of TO:II (50% of RDN & 100% PK + 2 sprays of Nano Urea at (35 DAS) and (60-65 DAS) @ 4 ml/lit water) showed higher yield, yield attributes and BC ratio over TO: I (50% RDN+ Single spray of nano urea at 35 DAS) and RDF (FP) in wheat crop. However, FP (100% RDN) showed at par result along with TO-II (50% RDN+ two spray of Nano urea at 35 and 60-65 DAS).





Fig.1: Technological intervention for Improvement of Nitrogen use efficiency in wheat

OFT: 08 Discipline: Soil Science

Title	Diversification of rice-based cropping systems.
Problem diagnose	Low profitability of existing cropping system.
Details of Technologies selected for assessment/refinement	Farmer Practice: Rice- Wheat (prominent cropping system of district)
	Technological Option1: Rice- Maize + Potato (<i>Rabi</i>)
	Technological Option2: Rice-Maize + Vegetable Pea (<i>Rabi</i>)
	Technological Option3: Rice- wheat – Green gram. (<i>Summer</i>)
Source of technology	OFT Finalization Workshop 2022 held at BAU, Sabour from 01-03 Sep., 2022
Replication	7
Production System & Thematic area	Crop diversification
Critical input	Seed (Rice, Wheat, Vegetable pea and Green gram)

Result:

Table 2: Influence of Technological options on yield and yield attributes of cropping system

Technological options	Crops	Grain Yield (q ha ⁻¹)	Straw Yield (q ha ⁻¹)	Rice equivalent yield (q ha ⁻¹)
FP	Rice	43.2	58.8	-
	Wheat	41	55.8	42.7
TO- I	Rice	43.2	58.8	-
	Maize	56.3	87.8	54.1
	Potato	265	159.0	129.9
TO- II	Rice	43.2	58.8	-
	Maize	62.6	97.7	60.2
	Vegetable pea	55.0	63.3	67.4
TO- III	Rice	43.2	58.8	-
	Wheat	41.0	55.8	42.7
	Green gram	9.5	21.9	36.1

Table 3: Influence of Technological options on economics of cropping system

Technological options	Cost of cultivation (Rs ha ⁻¹)	Gross return (Rs ha ⁻¹)	Net return (Rs ha ⁻¹)	B: C Ratio
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FP	94815	175253	80438	1.85
TO- I	157567	463589	306022	2.94
TO- II	102361	348449	246089	3.40
TO- III	129897	248926	119028	1.92

Conclusion: Results indicated that TO-II (Rice-Maize + Vegetable pea) is showed highest B: C Ratio (3.40) over the rest of TO's including Rice-Wheat (FP), Rice-Maize +Potato (TO-I) and Rice- Wheat- Green Gram (TO-III).



Fig. 1: Technological intervention for diversification of rice-based cropping systems

OFT-09 (Plant Protection)

1.	Title of On farm Trial	Eco-friendly management practices to control fruit fly in cucurbits
2.	Problem diagnosed	Yield loss due to constant attack of fruit flies in cucurbits. Fruit fly damage is the major limiting factor in obtaining good quality fruits and high yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers practice: Spray of any pesticides as per their knowledge Technology option 1: Mix Ethyl Alcohol- 60 ml + Cue lure (P-Acetoxyl butanone-2)- 40 ml + Malathion/ DDVP- 20 ml (i.e., 6:4:2) @ 10 traps/ha

		Technology option 2: Bait Application Technique (BAT) spray liquid of 0.1% insecticide (malathion) and 10% Jaggery or 10% ripe banana or erect cue lure (Para Pheromone trap) @ 3 per acre to attract and trap male fruit flies
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR, Bengaluru
5.	Production system and thematic area	Integrated Pest Management
6.	Performance of the Technology with performance indicators	• Percent fruit damage • Percent fruit infestation • No of insects attracted per trap • B:C ratio • Yield loss (t/ha)
7.	Final recommendation for micro-level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Awareness, Training, Field visit, Farmers' interaction
10.	Result	Awaited

OFT-10 (Plant Protection)

1.	Title of On farm Trial	Assessment of fungicides for the management of Sheath blight of Rice
2.	Problem diagnosed	Low yield of paddy due to attack of sheath blight disease
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers practice: Spray of hexaconazole 5 EC Technology option 1: Spray of Propiconazole 13.9% + Difenoconazole 13.9% EC @500ml/ha Technology option 2 : Spray of Thifluzamide 24 SC @ 1ml /liter of water (45 days after transplanting)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Annamalai University, Tamil Nadu
5.	Production system and thematic area	Integrated disease management
6.	Performance of the Technology with performance indicators	• Disease Incidence • Disease severity • Yield (q/ha) • B:C ratio
7.	Final recommendation for micro level situation	NA
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	Training, Field visit, Kisan Goshti

10.	Result	Awaited
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3.3 ACHIEVEMENTS OF FRONTLINE DEMONSTRATIONS (FLD)

A. Details of FLDs conducted during the year 2023

Crop	Variety/ Tech demo.	Season Kharif/ Rabi	Area (ha)	No. of Farmers	Production q/ha			Local check (q/ha)	Increase in yield%	BC ratio
					H	L	A			
Papaya	High yielding variety	-	0.4	10	-	-	-	-	-	3.14
Moringa	Bund plantation	-	0.4	10	-	-	-	-	-	Under vegetat ive stage
Elephant foot yam	High yielding variety	-	0.3	10	270	245	257	220	16.81	2.03
Turmeric	High curcumin content variety	-	0.1	10	85	77	81	63	28.57	3.62
Button mushroom	Pre- treatment of button mushroo m	-	-	5	-	-	-	-	-	-
Oyster mushroom	Cultivat ion of oyster mushroo m	-	-	10	-	-	-	-	-	-
Milk	Milk adulterati on kit	-	-	10	-	-	-	-	-	-
Azolla	Productivi ty enhancem ent of dairy animals	-	-	10	-	-	-	-	-	-
Maize	Productivi ty enhancem ent	Kharif	2.0	10	57.5	51. 5	54.5	499.0	11.22	1.8
Feed supplement	Mineral mixture	-	-	10	-	-	-	-	-	2.10
Green Manuring	Green gram	Rabi	2.0	5	-	-	-	-	-	-

Details of farming situation

Sl. No.	Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)				Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
					N	P ₂ O ₅	K ₂ O	OC					
1.	-	-	-	-	-	-	-	-	-	-	-	-	-

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

B. Details of FLDs conducted during the year 2023

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Horticultural crops (separately Fruit, Vegetables, Flower, Medicinal and aromatics, etc.)

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Papaya	Introduction of high yielding variety (Red Lady)	10	10	39.50	35.10	13.16	-	-	32568.70	122450.00	89881.30	2.76	33452.70	108810.00	75357.30	2.39
Elephant foot Yam	Introduction of high yielding variety (Gagendra)	10	10	115.50	92.58	27.35	-	-	65540.50	219450.00	153909.50	2.35	70685.50	174040.00	103354.50	1.68

Turmeric	Introduct ion of high Curcumi n content variety (Rajendr a Sonia)	10	10	85.50	65.40	29.57	-	-	39 54 2.7 0	179 550 .00	140 007 .30	3. 54	55 54 2.5 0	202 740 .00	147 197 .50	2. 47
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* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

6. Demonstration details on crop hybrid varieties

Crop	Name of the Hybrid	No. of Farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals	-	-	-	-	-	-	-	-	-	-
Bajra	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-
Paddy	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
Total Cereals	-	-	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-	-	-
Castor	-	-	-	-	-	-	-	-	-	-
Mustard	-	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Sunflower	-	-	-	-	-	-	-	-	-	-
Groundnut	-	-	-	-	-	-	-	-	-	-
Soybean	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
Total Oilseeds	-	-	-	-	-	-	-	-	-	-
Pulses	-	-	-	-	-	-	-	-	-	-
Greengram	-	-	-	-	-	-	-	-	-	-
Blackgram	-	-	-	-	-	-	-	-	-	-
Bengalgram	-	-	-	-	-	-	-	-	-	-
Redgram	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
Total Pulses	-	-	-	-	-	-	-	-	-	-
Vegetable crops	-	-	-	-	-	-	-	-	-	-
Bottle gourd	-	-	-	-	-	-	-	-	-	-
Capsicum	-	-	-	-	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-	-	-	-	-
Tomato	-	-	-	-	-	-	-	-	-	-
Brinjal	-	-	-	-	-	-	-	-	-	-
Okra	-	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-	-
Potato	-	-	-	-	-	-	-	-	-	-
Field bean	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
Total Veg. Crops	-	-	-	-	-	-	-	-	-	-
Commercial Crops	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Coconut	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-

Total Commercial Crops	-	-	-	-	-	-	-	-	-	-
Fodder crops	-	-	-	-	-	-	-	-	-	-
Napier (Fodder)	-	-	-	-	-	-	-	-	-	-
Maize (Fodder)	-	-	-	-	-	-	-	-	-	-
Sorghum (Fodder)	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
Total Fodder Crops	-	-	-	-	-	-	-	-	-	-

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

7 Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	Feed management	Promotion of Azolla as a unconventional source of feed amongst the dairy animal	20	20	7.0 lt	6.4lt	22.03	-	-	24000	75600	51600	3.15	21900	64200	42300	2.93
Dairy	Green fodder mangement	Promotion of Hybrid Napier	03	03	110	40	175	No. of cuttings : 8; Green fodder yield: 110 q/ha	No. of cuttings : 4; Green fodder yield: 40 q/ha	3800	12600	8800	3.32	1200	4120	2920	2.43
Lactating Cattle	Nutrition Management	Mineral supplementation	25	25nos. of lactating Dairy Cattle	Milk yield	Milk yield	12.5	-	-	14400	28500	14100	1.98	9250	16900	7650	1.83
Lactating Buffalo	Nutrition management	Mineral supplementation	20	20nos. of lactating buffaloes	Milk yield	Milk yield	13.3	-	-	16920	32610	15690	1.93	13500	24900	11400	1.84

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

8 Fisheries

Category	The matic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total																	

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

9 Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total																

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

10 Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women	Vertical farming	10	-	-	-
Pregnant women	-	-	-	-	-
Adolescent Girl	-	-	-	-	-
Other women	-	-	-	-	-
Children	-	-	-	-	-
Neonatal	-	-	-	-	-
Infants	-	-	-	-	-

11. Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)	Cost reduction (Rs./ha or Rs./Unit)
					Demonstration	Check			
Zero-tillage	Wheat	Sowing of Wheat with zero tillage	10	1	3000	4500	33.33	5	Rs 6000/ha
Happy Seeder	Wheat	Sowing of Wheat with happy seeder	10	1	2000	4500	55.55	5	Rs 8000/ha
Potato Transplanter	Potato	Sowing of potato through potato transplanter	5	0.5	5000	9000	44.44	12	Rs 15000/ha

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	18-02-2023, 16-12-2023	4	122	-
2.	Farmers Training	-	10	122	-
3.	Media coverage	-	3	-	-
4.	Training for extension functionaries	-	-	-	-

Technical Feedback on the demonstrated technologies (if any)

Sl. No	Crop	Feed Back
-	-	-

A. PERFORMANCE OF THE DEMONSTRATION UNDER CFLD ON PULSE AND OILSEED CROPS (CFLD) (During Kharif, Rabi and Summer)

Following Pulses and Oilseed crops were taken in CFLD project during *Rabi* and *Summer* under the Co-PI's of KVK, Saran

- Dr. Abhay Kumar Singh, Senior Scientist & Head
- Dr. Kanhaiya Lal Regar, SMS (Soil Science)

1. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha) 7 years	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Avg.	D	S	P
	Pulses														
1.	Pigeon pea	Local	12.6	2.55	2.55	-2.85	Rajendra Arhar-1 +HYV + Line Sowing + Seed Treatment with	50	20	18.2	15.1	16.65	18.1	18.1	- 14.6

							Rhizobium+PSB								
2.	Chickpea	Local	7.2	3.25	3.25	-9.45	RVG-204/RVG-202 +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	50	20	12.6	8.5	10.55	44.5	44.5	- 47.3
3.	Lentil	Local	9.3	2.68	5.70	-3.00	IPL-316 +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	50	20	13.1	10.9	12.0	28.8	90.5	- 20.0
4.	Greengram	Local	6.9	2.23	3.51	-1.95	Virat +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	50	20	10.8	7.3	9.1	32.7	63.4	- 17.7
Oilseeds															
5.	Rapeseed & Mustard	Hybrid	11.3	1.88	3.83	-0.60	R.Suflam +HYV + Line Sowing + Seed Treatment with Azotobacter+PSB		40	16.5	14.9	15.7	13.6	32.3	- 3.7
6.	Linseed	Local	8.54	2.42	2.72	-2.10	Sabour Tisi-1)+HYV + Line Sowing + Seed Treatment with Azotobacter+PSB		20	13	9.4	11.2	27.6	32.1	- 15.8

7.	Sesame	Local	4.6	1.10	0.95	-1.45	Krishna+ HYV + Line Sowing + Seed Treatment with Azotobect or+PSB		20	6.9	5.2	6.05	22.2	18.6	-19.3
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2. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
	Pulses								
1.	Pigeon pea(Rajendra Arhar-1) +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	44951	83160	38209	1.85	47778	109890	62112	2.3
2.	Chickpea (RVG-204/ RVG-202) +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	25106	38412	13306	1.53	30424	56284	25860	1.85
3.	Lentil (IPL-316) +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	35316	55800	20484	1.58	37696	72000	34304	1.91
4..	Greengram (Virat) +HYV + Line Sowing + Seed Treatment with Rhizobium+PSB	35912	53510	17597	1.49	39429	70183	30754	1.78
	Oilseeds								
5.	Rapeseed & Mustard-(R.Suflam)+HYV + Line Sowing + Seed Treatment with Azotobector+PSB	32758	61585	28827	1.88	37041	85565	48524	2.31
6.	Linseed (Sabour Tisi-1) +HYV + Line Sowing + Seed	32533	68320	35787	2.10	33811	89600	55789	2.65

	Treatment with Azotobector+PSB								
7.	Sesame (Krishna)+HYV + Line Sowing + Seed Treatment with Azotobector+PSB	24336	36018	11682	1.48	26613	47372	20758	1.78

3. Socio-economic impact parameters 2023

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/household)
Pulses								
1.	Pigeon pea (Rajendra Arhar-1)	33300	31550	6600	1750	0	For agricultural inputs, food and feed, school fees of children and social obligations	-
2.	Chickpea (RVG-202/RVG-204)	21100	18350	53.35	2750	0	For agricultural inputs, food and feed, school fees of children and social obligations	
3.	Lentil (IPL-316)	24000	22250	60.00	1750	0	For agricultural inputs, food and feed, school fees of children and social	

							obligation s	
4.	Greengram (Virat)	18100	16100	77.55	2000	0	For agricultur al inputs, food and feed, school fees of children and social obligation s	-
Oilseeds								
5.	Rapeseed & Mustard (R.Suflam)	62800	54800	54.50	8000	0	For agricultur al inputs, food and feed, school fees of children and social obligation s	-
6..	Linseed (Sabour Tisi-1)	22400	20650	80.00	1750	0	For agricultur al inputs, food and feed, school fees of children and social obligation s	
7.	Summer Sesame- (Krishna)	12100	10100	78.30	2000	0	For agricultur al inputs, food and feed, school fees of children and social obligation s	-

B. Pulses/Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Variety, Seed treatment, INM, Rhizobium/Azotobacter Treatment, Phosphobacteria,	Very appropriate	Variety-INM (Rhizobium/Azotobacter-Phosphobacteria-Sulphur-Boron-Zinc)	Easily access	No	Yes	NA

C. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Variety, Seed treatment, INM, IPM, Azotobacter Treatment, Phosphobacteria	Good	Demo unit is good on local check due to improved variety along with Package and practices	Positive response but Blue bull affects crop during growth period.

D. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Field day on Pigeon pea (Rajendra Arhar-1)	06.01.2023 (Ashok Nagar)	34
2.	Field day on Rapeseed& Mustard (R.Suflam)	01.02.2023 (Gurdhah Khurd)	27
3	Field day on Chickpea (RVG-204)	15.03.2023 (Rasispur)	24
4.	Field day on Lentil (IPL-316)	16.03.2023 (Hrashpura)	27
5.	Field day on Linseed (Sabour Tisi-1)	17.03.2023 (Sitabdiara)	29
6.	Training on Scientific cultivation of Sesame	31.03.2023 (Manjhi)	29
7.	Training on Scientific cultivation of Green gram	04.04.2023 (Sitabdiara)	28
8.	Field day on Greengram (Virat)	31.05.2023 (Sitabdiara)	31
	Field day on Greengram (Virat)	05.06.2023 (Chenpur)	26
9.	Training on Scientific cultivation of Rapeseed & Mustard	30.10.2023 (KVK, Manjhi)	35

10.	Training on Scientific cultivation of Sunflower	31.10.2023 (KVK, Manjhi)	23
11.	Training on Scientific cultivation of Linseed	08.11.2023 (KVK, Manjhi)	21

E. Sequential good quality photographs (as per crop stages i.e. growth & development)

	
Critical input distribution of Linseed	Critical input distribution of Green gram
	
Critical input distribution of Lentil	Critical input distribution of Mustard

F. Farmers' training photographs

	
Training on Pigeon pea cultivation	Training on Chickpea cultivation



Training on Sunflower cultivation



Training on Rapeseed cultivation

G. Quality Action Photographs of field visits/field days and technology demonstrated



Field day on Greengram (Virat)



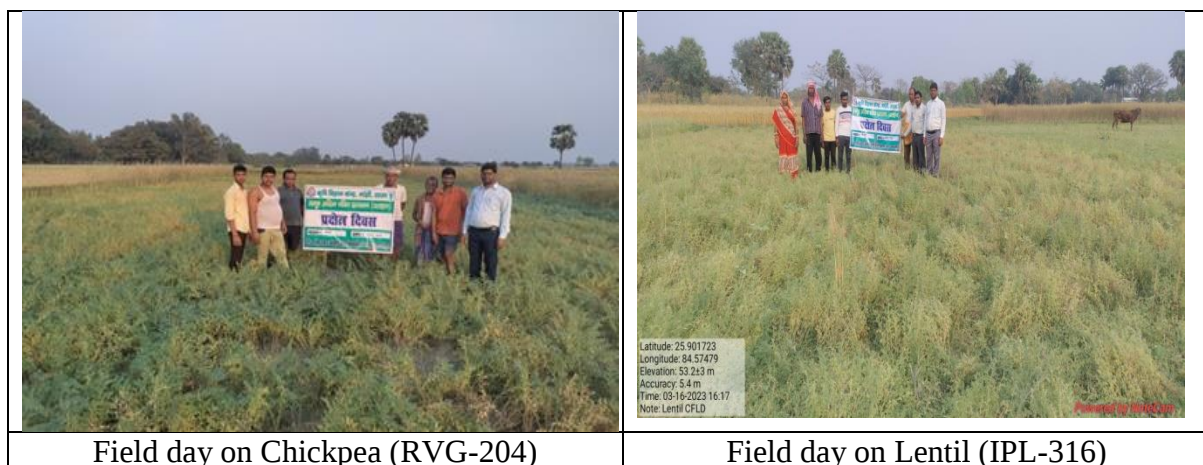
Field day on Linseed (Sabour Tisi-1)



Field day on Rapeseed & Mustard (R. Suflam)



Field Day on Pigeon pea (R. Arhar-1)



H. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pulses	i) Critical input	0	63700	-63700
	ii) TA/DA/POL etc. for monitoring	0	0	0
	iii) Extension Activities (Field day)	0	2100	-2100
	iv)Publication of literature	-	-	-
	Total	0	65800	-65800
Oilseed	i) Critical input	0	120755	-120755
	ii) TA/DA/POL etc. for monitoring	-	-	-
	iii) Extension Activities (Field day)	0	-	-
	iv)Publication of literature	-	-	-
	Total	0	120755	-120755

3.4 ACHIEVEMENTS ON TRAINING /CAPACITY BUILDING PROGRAMMES

3.5 (Mandated KVK trainings/sponsored training /FLD training programmes):

A) Farmers and farm women Including the sponsored training programme (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, (cultivation of crops)	0	0	0	0	0	0	0	0	0	0	0	0	0
II. Horticulture											0	0	
a) Vegetable Crops											0	0	
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Skill development	0	0	0	0	0	0	0	0	0	0	0	0	0
Yield increment	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery raising	4	58	14	72	6	5	11	2	1	3	66	20	86
Export potential vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any (Cultivation of Vegetable)	0	0	0	0	0	0	0	0	0	0	0	0	0
Training and pruning	2	32	16	48	3	2	5	0	0	0	35	18	53
b) Fruits											0	0	
Layout and Management of Orchards	3	38	12	50	8	1	9	0	0	0	46	13	59
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	1	14	0	14	3	0	3	0	0	0	17	0	17
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any(INM)	0	0	0	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants													
Nursery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
d) Plantation crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
e) Tuber crops											0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
f) Spices											0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants													
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-harvest technology and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
III. Soil Health and Fertility Management													
Soil fertility management	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	3	39	0	39	15	0	15	0	0	0	54	0	54
Production and use of organic inputs	3	43	16	59	5	4	9	0	0	0	48	20	68
Management of Problematic soils	1	14	0	14	3	0	3	0	0	0	17	0	17
Micro nutrient deficiency in crops	2	40	0	40	5	0	5	1	0	1	46	0	46
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
IV. Livestock Production and Management													
Dairy Management	2	19	5	24	4	2	6	0	0	0	23	7	30
Poultry Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Disease Management	3	45	4	49	12	0	12	0	0	0	57	4	61
Feed management	1	16	2	18	3	0	3	0	0	0	19	2	21
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any Goat farming	1	16	3	19	2	0	2	0	0	0	18	3	21
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	3	42	0	42	12	0	12	0	0	0	54	0	54
Use of Plastics in farming practices	2	16	3	19	8	2	10	0	0	0	24	5	29
Production of small tools and implements	2	16	0	16	12	0	12	0	0	0	28	0	28
Repair and maintenance of farm machinery and implements	3	38	5	43	14	6	20	0	0	0	52	11	63
Small scale processing and value addition	2	18	9	27	18	3	21	0	0	0	36	12	48
Post-Harvest Technology	1	25	0	25	4	0	4	0	0	0	29	0	29
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
VII. Plant Protection													
Integrated Pest Management	4	80	11	91	13	2	15	0	0	0	93	13	106
Integrated Disease Management	4	79	4	83	9	2	11	0	0	0	88	6	94
Bio-control of pests and diseases	1	16	3	19	5	0	5	0	0	0	21	3	24
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0		0	0	0	0	0	0	0
VIII. Fisheries													
Integrated fish farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0		0	0	0	0	0	0	0
Composite fish culture & fish disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish feed preparation & its application to fish pond, like	0	0	0	0	0		0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn	0	0	0	0	0		0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0		0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0		0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0		0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0		0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0		0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0		0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0		0	0	0	0	0	0	0
Others, if any	0	0	0	0	0		0	0	0	0	0	0	0
IX. Production of Inputs at site													
Seed Production	0	0	0	0	0		0	0	0	0	0	0	0
Planting material production	0	0	0	0	0		0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0		0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0		0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0		0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0		0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0		0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0		0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0		0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0		0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0		0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0		0	0	0	0	0	0	0
Others, if any	0	0	0	0	0		0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics													
Leadership development	0	0	0	0	0		0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0		0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0		0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0		0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0		0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0		0	0	0	0	0	0	0
Others, if any	0	0	0	0	0		0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0		0	0	0	0	0	0	0
Production technologies	0	0	0	0	0		0	0	0	0	0	0	0
Nursery management	0	0	0	0	0		0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0		0	0	0	0	0	0	0
XII. Others (Pl. Specify)	0	0	0	0	0		0	0	0	0	0	0	0
TOTAL	48	704	107	811	164	29	193	3	1	4	871	137	1008

B) Rural Youth Including the sponsored training programmes (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	3	46	23	69	12	3	15	1	1	2	59	27	86
Bee-keeping	1	22	0	22	12	0	12	0	0	0	34	0	34
Integrated farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	2	39	0	39	12	0	12	2	0	2	53	0	53
Integrated Farming	1	22	0	22	3	0	3	0	0	0	25	0	25
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	1	12	11	23	3	1	4	0	0	0	15	12	27
Commercial fruit production	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	26	0	26	2	0	2	0	0	0	28	0	28
Nursery Management of Horticulture crops	2	49	12	61	11	3	14	0	0	0	60	15	75
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Dairying	2	36	1	37	23	0	23	0	0	0	59	1	60
Sheep and goat rearing	2	48	5	53	12	3	15	0	0	0	60	8	68
Quail farming	0	32	1	33	6	1	7	0	0	0	38	2	40
Piggery	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry production	2	35	9	44	6	5	11	0	0	0	41	14	55
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing	2	16	0	16	6	4	10	0	0	0	22	4	26
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	509	22	531	80	21	101	0	4	4	589	47	636

C) Extension Personnel Including the sponsored training programmes (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	1	18	0	18	3	0	3	0	0	0	21	0	21
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	1	19	0	19	3	0	3	0	0	0	22	0	22
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	1	20	5	25	2	1	3	0	0	0	22	6	28
Household food security	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	16	0	16	0	0	0	0	0	0	16	0	16
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	73	5	78	8	1	9	0	0	0	81	6	87

D) Farmers and farm women Including the sponsored training programmes (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, (cultivation of crops)	0	0	0	0	0	0	0	0	0	0	0	0	0
II. Horticulture											0	0	
a) Vegetable Crops											0	0	
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Skill development	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Yield increment	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery raising	2	28	12	40	16	0	16	2	1	3	46	13	59
Export potential vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any (Cultivation of Vegetable)	0	0	0	0	0	0	0	0	0	0	0	0	0
Training and pruning	2	34	12	46	8	0	8	0	0	0	42	12	54
b) Fruits											0	0	
Layout and Management of Orchards	4	43	13	56	19	0	19	0	0	0	62	13	75
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any(INM)	0	0	0	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants											0	0	
Nursery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
d) Plantation crops											0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
e) Tuber crops											0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
f) Spices											0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants											0	0	
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-harvest technology and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
III. Soil Health and Fertility Management											0	0	
Soil fertility management	2	18	4	22	12	2	14	0	0	0	30	6	36
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	2	29	0	29	12	0	12	0	0	0	41	0	41
Production and use of organic inputs	2	32	0	32	4	0	4	0	0	0	36	0	36
Management of Problematic soils	1	14	0	14	3	0	3	0	0	0	17	0	17
Micro nutrient deficiency in crops	2	40	0	40	5	0	5	1	0	1	46	0	46
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
IV. Livestock Production and Management											0	0	
Dairy Management	1	14	5	19	2	1	3	0	0	0	16	6	22
Poultry Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Disease Management	2	36	5	41	8	0	8	0	0	0	44	5	49
Feed management	1	16	2	18	3	0	3	0	0	0	19	2	21
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any Goat farming	1	14	3	17	5	0	5	0	0	0	19	3	22
V. Home Science/Women empowerment											0	0	0
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
VI. Agril. Engineering											0	0	
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production of small tools and implements	2	18	0	18	13	0	13	0	0	0	31	0	31
Repair and maintenance of farm machinery and implements	2	28	6	34	15	3	18	0	0	0	43	9	52
Small scale processing and value addition	2	16	8	24	11	3	14	0	0	0	27	11	38
Post-Harvest Technology	1	22	0	22	3	0	3	0	0	0	25	0	25
Others, if any	2	29	0	29	22	0	22	0	0	0	51	0	51
VII. Plant Protection											0	0	
Integrated Pest Management	3	48	0	48	14	2	16	0	0	0	62	2	64
Integrated Disease Management	3	52	5	57	11	1	12	0	0	0	63	6	69
Bio-control of pests and diseases	2	28	0	28	16	0	16	0	0	0	44	0	44
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0		0	0	0	0	0	0	0
VIII. Fisheries											0	0	
Integrated fish farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0		0	0	0	0	0	0	0
Composite fish culture & fish disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	0	0	0	0	0		0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0		0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0		0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0		0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0		0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0		0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0		0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0		0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0		0	0	0	0	0	0	0
Others, if any	0	0	0	0	0		0	0	0	0	0	0	0
IX. Production of Inputs at site											0	0	
Seed Production	0	0	0	0	0		0	0	0	0	0	0	0
Planting material production	0	0	0	0	0		0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0		0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0		0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0		0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0		0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0		0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0		0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0		0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0		0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0		0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0		0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any	0	0	0	0	0		0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics											0	0	
Leadership development	0	0	0	0	0		0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0		0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0		0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0		0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0		0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0		0	0	0	0	0	0	0
Others, if any	0	0	0	0	0		0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0		0	0	0	0	0	0	0
Production technologies	0	0	0	0	0		0	0	0	0	0	0	0
Nursery management	0	0	0	0	0		0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0		0	0	0	0	0	0	0
XII. Others (Pl. Specify)	0	0	0	0	0		0	0	0	0	0	0	0
TOTAL	39	559	75	634	202	12	214	3	1	4	764	88	852

E) RURAL YOUTH including the sponsored training programmes (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Para vets	0	0	0	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	10	11	21	2	2	4	0	0	0	12	13	25

F) Extension Personnel Including the sponsored training programmes (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Cours es	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Crop intensification	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

Thematic Area	No. of Course s	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, (cultivation of crops)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Skill development	0	0	0	0	0	0	0	0	0	0	0	0	0
Yield increment	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery raising	6	86	26	112	22	5	27	4	2	6	112	33	145
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any (Cultivation of Vegetable)	4	66	28	94	11	2	13	0	0	0	77	30	107
Total	10	152	54	206	33	7	40	4	2	6	189	63	252
b) Fruits													
Training and Pruning	7	81	25	106	27	1	28	0	0	0	108	26	134

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	1	14	0	14	3	0	3	0	0	0	17	0	17
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any(INM)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	95	25	120	30	1	31	0	0	0	125	26	151
c) Ornamental Plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
d) Plantation crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
e) Tuber crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
f) Spices													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants													
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	18	247	79	326	63	8	71	4	2	6	81	0	403
III. Soil Health and Fertility Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Soil fertility management	2	18	4	22	12	2	14	0	0	0	30	6	36
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	5	68	0	68	27	0	27	0	0	0	95	0	95
Production and use of organic inputs	5	75	16	91	9	4	13	0	0	0	84	20	104
Management of Problematic soils	2	28	0	28	6	0	6	0	0	0	34	0	34
Micro nutrient deficiency in crops	4	80	0	80	10	0	10	2	0	2	92	0	92
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	18	269	20	289	64	6	70	2	0	2	335	26	361
IV. Livestock Production and Management													
Dairy Management	3	33	10	43	6	3	9	0	0	0	39	13	52
Poultry Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Disease Management	5	81	9	90	20	0	20	0	0	0	101	9	110
Feed management	2	32	4	36	6	0	6	0	0	0	38	4	42
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any (Goat farming)	2	30	6	36	7	0	7	0	0	0	37	6	43
TOTAL	12	176	29	205	39	3	42	0	0	0	215	32	247
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	3	42	0	42	12	0	12	0	0	0	54	0	54
Use of Plastics in farming practices	2	16	3	19	8	2	10	0	0	0	24	5	29
Production of small tools and implements	4	34	0	34	25	0	25	0	0	0	59	0	59
Repair and maintenance of farm machinery and implements	5	66	11	77	29	9	38	0	0	0	95	20	115
Small scale processing and value addition	4	34	17	51	29	6	35	0	0	0	63	23	86
Post-Harvest Technology	2	47	0	47	7	0	7	0	0	0	54	0	54
Others, if any	2	29	0	29	22	0	22	0	0	0	51	0	51
TOTAL	22	268	31	299	132	17	149	0	0	0	400	48	448
VII. Plant Protection													
Integrated Pest Management	7	128	11	139	27	4	31	0	0	0	155	15	170
Integrated Disease Management	7	131	9	140	20	3	23	0	0	0	151	12	163
Bio-control of pests and diseases	3	44	3	47	21	0	21	0	0	0	65	3	68
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	17	303	23	326	68	7	75	0	0	0	371	30	401
VIII. Fisheries													
Integrated fish farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture & fish disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	0	0	0	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
IX. Production of Inputs at site													
Seed Production	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics													
Leadership development	0	0	0	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry													
Production technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
XII. Others (Pl. specify)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	87	1263	182	1445	366	41	407	6	2	8	1635	225	1860

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	3	46	23	69	12	3	15	1	1	2	59	27	86
Bee-keeping	1	22	0	22	12	0	12	0	0	0	34	0	34
Integrated farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	2	39	0	39	12	0	12	2	0	2	53	0	53
Integrated Farming	1	22	0	22	3	0	3	0	0	0	25	0	25
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	1	12	11	23	3	1	4	0	0	0	15	12	27
Commercial fruit production	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	26	0	26	2	0	2	0	0	0	28	0	28
Nursery Management of Horticulture crops	2	49	12	61	11	3	14	0	0	0	60	15	75
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Dairying	2	36	1	37	23	0	23	0	0	0	59	1	60
Sheep and goat rearing	2	48	5	53	12	3	15	0	0	0	60	8	68
Quail farming	0	32	1	33	6	1	7	0	0	0	38	2	40
Piggery	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry production	2	35	9	44	6	5	11	0	0	0	41	14	55
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing	2	16	0	16	6	4	10	0	0	0	22	4	26
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	509	22	531	80	21	101	0	4	4	589	47	636

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	1	18	0	18	3	0	3	0	0	0	21	0	21
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	1	19	0	19	3	0	3	0	0	0	22	0	22
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	1	20	5	25	2	1	3	0	0	0	22	6	28
Household food security	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	16	0	16	0	0	0	0	0	0	16	0	16
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	73	5	78	8	1	9	0	0	0	81	6	87

Please furnish the details of training programmes as Annexure in the proforma given below

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Horticulture	PF	Nursery raising of <i>kharif</i> season vegetables	2	ON	30	12	42	6	3	9
Horticulture	PF	Nursery raising of <i>Rabi</i> season vegetables	2	ON	36	8	44	2	3	5
Horticulture	PF	Layout and preparation of kitchen gardening	1	ON	18	10	28	2	1	3
Horticulture	PF	Scientific cultivation of papaya	1	ON	17	8	25	1	1	2
Horticulture	PF	Management and care of mango and litchi orchards	1	ON	12	3	15	3	1	4

Horticulture	PF	Management of young plants of Banana, citrus, bael & ber	1	ON	15	4	19	3	0	3
Horticulture	PF	Scientific cultivation of papaya	1	ON	19	6	25	2	0	2
Horticulture	PF	Care and management of young papaya	1	ON	17	0	17	3	0	3
Soil Science	PF	Integrated Nutrient Management	3	ON	54	0	54	15	0	15
Soil Science	PF	Azolla Production and its application	3	ON	48	20	68	5	4	9
Soil Science	PF	Soil Sampling & Testing Techniques	1	ON	17	0	17	3	0	3
Soil Science	PF	Management of micro nutrients in crops	2	ON	46	0	46	6	0	6
Animal Science	PF	Management of dairy animals in summer	1	ON	10	5	15	2	1	3
Animal Science	PF	Management of dairy animals in winter	1	ON	13	2	15	2	1	3
Animal Science	PF	Feed management in goat	1	ON	19	2	21	3	0	3
Animal Science	PF	Disease management in bovine	1	ON	20	2	22	4	0	4
Animal Science	PF	Disease management in caprine	1	ON	18	0	18	6	0	6
Animal Science	PF	Disease management in poultry	1	ON	19	2	21	2	0	2
Animal Science	PF	Goat farming	1	ON	18	3	21	2	0	2
Plant Protection	PF	Management of Pest in of Paddy	1	ON	21	3	24	3	1	4
Plant Protection	PF	Pest management of Banana	1	ON	24	4	28	4	0	4
Plant Protection	PF	Pest management of chickpea and Pea	1	ON	22	4	26	3	1	4
Plant Protection	PF	Pests management of mustard	1	ON	26	2	28	3	0	3
Plant Protection	PF	Management of disease in of Paddy	1	ON	18	2	20	3	2	5
Plant Protection	PF	Disease management of Banana	1	ON	23	3	26	5	0	5
Plant Protection	PF	Disease management of chickpea and Pea	1	ON	24	0	24	1	0	1

Plant Protection	PF	Disease management of mustard	1	ON	23	1	24	0	0	0
Plant Protection	PF	Bio-control of pests and diseases	1	ON	21	3	24	5	0	5
Agril. Engg.	PF	Installation and maintenance of micro irrigation systems	3	ON	54	0	54	12	0	12
Agril. Engg.	PF	Use of Plastics in farming practices	2	ON	24	5	29	8	2	10
Agril. Engg.	PF	Production of small tools and implements	2	ON	28	0	28	12	0	12
Agril. Engg.	PF	Repair and maintenance of farm machinery and implements	3	ON	52	11	63	14	6	20
Agril. Engg.	PF	Small scale processing of milk	1	ON	19	8	27	8	1	9
Agril. Engg.	PF	Small scale processing of pickles	1	ON	17	4	21	10	2	12
Agril. Engg.	PF	Post harvest management of rice	1	ON	29	0	29	4	0	4
Horticulture	PF	Nursery raising of <i>kharif</i> vegetables	1	OFF	25	8	33	12	0	12
Horticulture	PF	Nursery raising of <i>Rabi</i> vegetables	1	OFF	21	5	26	6	1	7
Horticulture	PF	Pruning in Guava	1	OFF	20	8	28	3	0	3
Horticulture	PF	Pruning in litchi orchard	1	OFF	22	4	26	5	0	5
Horticulture	PF	Layout and management of papaya	1	OFF	18	3	21	3	0	3
Horticulture	PF	Layout and management of litchi orchards	1	OFF	14	4	18	4	0	4
Horticulture	PF	Layout and management of mango orchards	1	OFF	17	2	19	5	0	5
Horticulture	PF	Layout and management of guava orchards	1	OFF	13	4	17	7	0	7
Soil Science	PF	Management of problematic soil	1	OFF	14	2	16	8	2	10
Soil Science	PF	Fertility management of soil	1	OFF	16	4	20	4	0	4
Soil Science	PF	Micronutrient Management through organics	2	OFF	41	0	41	12	0	12
Soil Science	PF	Diagnosis of nutrient deficiency and their management	1	OFF	16	0	16	3	0	3
Soil Science	PF	Bio-fertilizer application methods and its importance	1	OFF	20	0	20	1	0	1
Soil Science	PF	Management of problematic soil	1	OFF	17	0	17	3	0	3

Soil Science	PF	Importance and Objectives of Soil Health Card	1	OFF	20	0	20	4	0	4
Soil Science	PF	Importance and application of Micronutrients	1	OFF	26	0	26	2	0	2
Animal Science	PF	Management of milch animals	1	OFF	16	6	22	2	1	3
Animal Science	PF	Disease management in bovine	1	OFF	21	4	25	6	0	6
Animal Science	PF	Disease management in poultry	1	OFF	23	1	24	2	0	2
Animal Science	PF	Feeding management of milch and dry animals	1	OFF	19	2	21	3	0	3
Animal Science	PF	Small scale goat farming	1	OFF	19	3	22	5	0	5
Agril. Engg.	PF	Production of small tools and implements	2	OFF	31	0	31	13	0	13
Agril. Engg.	PF	Repair and maintenance of farm machinery and implements	2	OFF	43	9	52	15	3	18
Agril. Engg.	PF	Amla processing	1	OFF	17	2	19	8	1	9
Agril. Engg.	PF	Leafy vegetables processing	1	OFF	10	9	19	3	2	5
Agril. Engg.	PF	Small scale mushroom processing	1	OFF	25	0	25	3	0	3
Agril. Engg.	PF	Spraying using Drone Technology in wheat	1	OFF	22	0	22	14	0	14
Agril. Engg.	PF	Spraying using Drone Technology in mustard	1	OFF	29	0	29	8	0	8
Plant Protection	PF	Pest management in paddy	1	OFF	21	1	22	9	1	10
Plant Protection	PF	Pest management in chickpea	1	OFF	22	1	23	4	1	5
Plant Protection	PF	Pest management in rabi season	1	OFF	19	0	19	1	0	1
Plant Protection	PF	Disease management in paddy	1	OFF	18	3	21	4	0	4
Plant Protection	PF	Disease management in kharif season	1	OFF	21	1	22	5	1	6
Plant Protection	PF	Disease management in rabi season	1	OFF	24	2	26	2	0	2
Plant Protection	PF	Bio-control of pests and diseases in Rabi season	1	OFF	28	0	28	9	0	9

Plant Protection	PF	Bio-control of pests and diseases in <i>Kharif</i> season	1	OFF	16	0	16	7	0	7
Plant Protection	RY	Mushroom Production	3	ON	22	8	30	3	2	5
Plant Protection	RY	Mushroom Production	3	ON	23	12	35	4	1	5
Plant Protection	RY	Mushroom Production	3	ON	14	7	21	6	1	7
Plant Protection	RY	Bee Keeping	3	ON	34	0	34	12	0	12
Soil Science	RY	Production of organic inputs	3	ON	23	0	23	8	0	8
Soil Science	RY	Production of organic inputs	3	ON	30	0	30	6	0	6
Soil Science	RY	Integrated farming and its management	3	ON	25	0	25	3	0	3
Horticulture	RY	Protected cultivation of vegetables	3	ON	15	12	27	3	1	4
Agril. Engg.	RY	Repair and maintenance of farm machinery and implements	3	ON	28	0	28	2	0	2
Horticulture	RY	Nutritional gardening	3	ON	35	8	43	7	1	8
Horticulture	RY	Kitchen gardening	3	ON	25	7	32	4	2	6
Animal Science	RY	Dairy farming and its management	3	ON	28	1	29	11	0	11
Animal Science	RY	Dairy farming and its management	3	ON	31	0	31	12	0	12
Animal Science	RY	Poultry farming and its management	3	ON	19	8	27	4	3	7
Animal Science	RY	Poultry farming and its management	3	ON	22	6	28	2	2	4
Animal Science	RY	Goat farming and its management	3	ON	35	5	40	5	3	8
Animal Science	RY	Goat farming and its management	3	ON	25	3	28	7	0	7
Agril. Engg.	RY	Small scale processing of milk	3	ON	10	3	13	4	3	7
Agril. Engg.	RY	Small scale processing of mushroom	3	ON	12	1	13	2	1	3
Plant Protection	EF	Integrated Pest Management	3	ON	21	0	21	3	0	3
Agril. Engg.	EF	Care and maintenance of farm machinery and implements	3	ON	22	0	22	3	0	3

Animal Science	EF	Livestock feed and fodder production	3	ON	22	6	28	2	1	3
Soil Science	EF	Production and use of organic inputs	3	ON	16	0	16	0	0	0

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self-employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
-	-	-	-	-	-	-	-	-	-	-

*Training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

S l.	Title	Themat ic area	Mo nth	Dura tion (days)	Client	No. of cour ses	No. of Participants										Spons oring Agenc y
					PF/R Y/EF		Male			Female			Total				
							Oth ers	S C	S T	Oth ers	S C	S T	Oth ers	S C	S T	To tal	
1 .	Efficie nt use of energy in Agricu lture	Energy conserv ation	Jul y	1	PF	1	29	3	1	16	5	2	45	8	3	56	BRED A

Area of training	No. of Courses	No. of Participants											
		General			SC			ST			Grand Total		
		M	F	Total	M	F	Total	M	F	Total	M	F	Total
Crop production and management													
Increasing production and productivity of crops	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial production of vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-
Production and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruit Plants	-	-	-	-	-	-	-	-	-	-	-	-	-
Ornamental plants	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices crops	-	-	-	-	-	-	-	-	-	-	-	-	-
Soil health and fertility management	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-	-	-	-
Methods of protective cultivation	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition													
Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Farm machinery													
Farm machinery, tools and implements	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-

Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Livestock and fisheries	-	-	-	-	-	-	-	-	-	-	-	-	-
Livestock production and management	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal Disease Management	-	-	-	-	-	-	-	-	-	-	-	-	-
Fisheries Nutrition	-	-	-	-	-	-	-	-	-	-	-	-	-
Fisheries Management	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-	-	-	-
Household nutritional security	-	-	-	-	-	-	-	-	-	-	-	-	-
Economic empowerment of women	-	-	-	-	-	-	-	-	-	-	-	-	-
Drudgery reduction of women	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Agricultural Extension	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Grant Total	-	-	-	-	-	-	-	-	-	-	-	-	-

J. Information on ASCI Skill Development Training Programme funded by ICAR undertaken during 2023

Total no of training organised	Name of QP/Job role	Title of the training	Duration (in hrs.)	No. of participants								Fund utilized for the training (Rs.)
				SC		ST		Other		Total		
				M	F	M	F	M	F	M	F	T
-	-	-	-	-	-	-	-	-	-	-	-	-

K. Information on Skill Development Training Programme (other agency if any) if undertaken

Total no of training organised	Name of QP/Job role	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
-	-	-	-	-	-	-	-	-	-	-	-	-	

3.4. A. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Kisan Mela organized	0	0	0	0	0	0	0	0	0	0	0
Kisan Mela participated	3	419	38	381	14.7	15	0	15	434	38	472
Field Day	8	167	0	167	10.96	8	0	8	175	0	175
Kisan Ghosthi	4	180	12	192	13.02	7	0	7	187	12	199
Exhibition organized	0	0	0	0	0	0	0	0	0	0	0

Participation in exhibition	2	2	0	2	0	1	0	1	3	0	3
Film Show	0	0	0	0	0	0	0	0	0	0	0
Method Demonstrations	2	16	3	19	9.52	2	0	2	18	3	21
Farmers Seminar	1	4	0	4	0	0	0	0	4	0	4
Workshop	0	0	0	0	0	0	0	0	0	0	0
Group discussion	0	0	0	0	0	0	0	0	0	0	0
Lectures delivered as resource persons	14	406	47	453	27.7	10	0	12	397	55	452
Advisory Services	74	14532	3145	17797	18.64	52	0	52	14584	3145	17849
Scientific visit to farmers field	326	321	5	326	15.83	0	0	0	321	5	326
Farmers visit to KVK	578	578	64	642	11.46	0	0	0	578	64	642
Diagnostic visits	58	170	1	171	16.25	58	0	58	228	1	229
Exposure visits	4	140	31	171	28.64	2	0	2	142	31	173
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0	0
Soil health Camp	0	0	0	0	0	0	0	0	0	0	0
Animal Health Camp	0	0	0	0	0	0	0	0	0	0	0
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	0	0	0	0	0	0	0	0	0	0	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
Special day celebration				0				0	0	0	0
Sankalp Se Siddhi	0	0	0	0	0	0	0	0	0	0	0
Swatchta Hi Sewa	20	212	22	234	11.82	40	0	40	252	22	274
Celebration of important date	14	420	210	630	15.85	130	0	130	550	210	760
Others	6	163	30	193	18.41	6	0	6	169	30	199

B. Other Extension activities

Nature of Extension Activity	No. of activities
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Newspaper coverage	25
Radio talks	0
TV talks	0
Popular articles	3
Extension Literature	2
Electronic media	0
Animal health camp	0
Any other	0

C. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
Swachhata Campaign	12	188	Swachhata Abhiyan in nearby villages

D. Celebration of important days in KVKs

Celebration of Important Days	No. of activities	Farmers				Extension Officials			Total		
		M	F	Total	SC/ ST (% of total)	M	F	Total	M	F	Total
Republic day (26 th Jan.)	1	56	34	90	27.16	8	0	8	64	34	98
World Environment Day (5 th June)	1	33	17	50	14	0	0	0	33	17	50
International Yoga Day (21 st Jun.)	1	22	0	22	27.14	2	0	2	24	0	24
ICAR Foundation day (16 th July)	1	50	15	65	14.16	0	0	0	50	15	65
Independence Day (15 th Aug.)	1	40	28	68	23.54	8	0	8	48	28	76
Parthenium Awareness Week	1	36	4	40	9.58	2	0	12	38	4	42
Hindi Diwas (14 th Sep.)	0	9	1	10	19.04	11	0	11	20	1	21
Gandhi Jayanti (2 nd Oct.)	1	11	3	14	23.14	3	0	3	14	3	17
Mahila Kisan Diwas (15 th Oct.)	1	0	33	33	15.33	11	0	11	11	33	44
World Food Day (16 th Oct.)	1	16	3	19	31.77	2	0	2	18	3	21
Vigilance Awareness Week	1	14	3	17	28.18	6	0	6	20	3	23
National Unity Day (31 st Oct.)	0	8	0	8	15.23	0	0	0	8	0	8
World Science Day (10 th Nov.)	1	17	2	19	13.63	3	0	3	20	2	22
National Education Day (11 th Nov.)	1	15	2	17	26.33	3	0	3	18	2	20
National Constitution Day (26 th Nov.)	1	42	4	39	25	6	0	6	41	4	45
World Soil Day (5 th Dec.)	1	29	3	32	14.17	3	0	3	32	3	35
Kisan Diwas (23 rd Dec.)	1	33	5	38	22.3	5	0	5	38	5	43

E. Interaction/Live telecast programme of Hon'ble PM/Hon'ble AM

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
1	27-07-2023	Urea gold ka Subharambh	Hon'ble PM	102	12	0	114
2	01-10-2023	Sankalp Saptah	Hon'ble PM	0	10	0	10
3	15-11-2023	Kisan Samman Nidhi ki 15 th Kisht	Hon'ble PM	146	10	0	156

3.5 a. Production and supply of Technological products

A. Seed production at seed village

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided			
					SC	ST	Other	Total

-	-	-	-	-	-	-	-	-
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B. Seed production at KVK farm

Crop/other	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Paddy	<i>Rajshree</i>	193.25	-	-	-	-	-
Wheat	<i>WB-02</i>	41.0	-	-	-	-	-
Pea	<i>HUDP-15</i>	2.5	-	-	-	-	-
Lentil	<i>IPL-220</i>	3.22	-	-	-	-	-
Rai	<i>R. Suflam</i>	9.0	-	-	-	-	-
Potato	<i>Kufri chipsona, Kufri sinduri</i>	27.5	-	-	-	-	-
Linseed	<i>Sekhar</i>	0.50					
Azolla	-	0.3 q	6000	6	0	4	10
Vermicompost	-	4.0 q	4000	25	0	10	35
Napier hybrid	CO ₂	2500 sticks	2500	15	0	15	30
Finger millet	-	0.50 q	2500	15	0	25	40
Total			15000	61	0	54	115

C. Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Vegetable seedlings							
Cauliflower	Improved variety	5880	29400	-	-	-	-
Cabbage	Improved variety	5880	29400	-	-	-	-
Tomato	Improved variety	3000	15000	-	-	-	-
Brinjal	Improved variety	3500	1750	-	-	-	-
Cucurbits	Improved variety	1000	5000	-	-	-	-
Chilli	Kashi Abha	3500	17500	-	-	-	-
Lettuce	Improved variety	880	4400				
Onion							
Moringa	PKM1	1400	56000	-	-	-	-
Others	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-
Mango	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-
Lime	Pusa sarwati	100	7000	-	-	-	-
Papaya	Red lady	3100	93000				
Banana	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-
Ornamental plants	-	-	-	-	-	-	-
Medicinal and Aromatic	Aloevera Lemon grass.	320 800	3200 1600	-	-	-	-
Plantation				-	-	-	-
Spices				-	-	-	-
Turmeric	Rajendra soniya	4.0 q	14000	-	-	-	-
Tuber	Tuberoase	3.0 q	10000	-	-	-	-
Elephant foot yam	Gajendra	1.5 q	4500	-	-	-	-

Fodder crop saplings	Napier hybrid cv. CO2	2500	2500	-	-	-	-
Forest Species	Melia dubia	300	4500	-	-	-	-
Others, pl.specify				-	-	-	-
Total		32160	298750	-	-	-	-

D. Forest species

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
-	-	-	-	-	-	-	-

E. Fodder crops saplings

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Napier hybrid	CO2	2500	2500	-	-	-	-

F. Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers benefitted			
	Kg		SC	ST	Other	Total
Bio-fertilizers	-	-	-	-	-	-
Bio-pesticide	-	-	-	-	-	-
Bio-fungicide	-	-	-	-	-	-
Bio-agents	2500	20000	-	-	-	-
Others, please specify.	-	-	-	-	-	-
Total	-	-	-	-	-	-

G. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
Dairy animals	-	-	-	-	-	-	-
Cows	-	-	-	-	-	-	-
Buffaloes	-	-	-	-	-	-	-
Calves	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-
Small ruminants	-	-	-	-	-	-	-
Sheep	-	-	-	-	-	-	-
Goat	-	-	-	-	-	-	-
Other, please specify	-	-	-	-	-	-	-
Poultry	-	-	-	-	-	-	-
Broilers	-	-	-	-	-	-	-
Layers	-	-	-	-	-	-	-
Duals (broiler and layer)	-	-	-	-	-	-	-
Japanese Quail	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-

Emu	-	-	-	-
Ducks	-	-	-	-
Others (Pl. specify)	-	-	-	-
Piggery	-	-	-	-
Piglet	-	-	-	-
Hog	-	-	-	-
Others (Pl. specify)	-	-	-	-
Fisheries	-	-	-	-
Indian carp	-	-	-	-
Exotic carp	-	-	-	-
Mixed carp	-	-	-	-
Fish fingerlings	-	-	-	-
Spawn	-	-	-	-
Others (Pl. specify)	-	-	-	-
Grand Total	-	-	-	-

A. SOIL & WATER TESTING

a. Details of equipment available in Soil and Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
-	Mrida Parikshak kit	01

b. Details of samples analyzed so far

Total number of soil samples analyzed till now		
Through mini soil testing kit/labs	Through soil testing laboratory	Total
267	0	267

c. Detail of Soil, Water and Plant analysis at KVK (2023)

Sl.	Analysis	No. of Samples analyzed	No. of Villages covered	No. of Farmers benefitted	Amount realized (Rs.)
1.	Soil	267	06	166	Nil
2.	Water	-	-	-	-
3.	Plant	-	-	-	-
4.	Fertilizers	-	-	-	-
5.	Manures	-	-	-	-
6.	Food	-	-	-	-
7.	Others (if any)	-	-	-	-

d. Details of World Soil Day Celebration

Sl. No.	No. of Activity conducted	Soil Health Cards distributed	No. of farmers benefitted	No. of VIPs Number of	Name (s) of VIP(s) involved if any	Total No. of Participants attended the program
1	1	30	30	0	0	51

I. Activities under Rain Water Harvesting structure and micro irrigation system

S.No	No of training programme conducted	No. of demonstrations	No. of plant material produced	Visit by the farmers (No.)	Visit by the officials (No.)
1	05	02	-	354	14

3.5. b. Seed Hub Programme - “Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India”

i) Name of Seed Hub Centre:

Name of Nodal Officer:	Dr. Abhay Kumar Singh (Senior Scientist & Head)
Name of Co-PI, Seed Hub:	Dr. Kanhaiya Lal Regar (SMS, Soil Science)
Address :	KVK Saran
e-mail :	Head.kvk.manjhi@rpcu.ac.in
Phone No.:	9198985483
Mobile :	

ii) Quality Seed Production of Pulses

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed(F/S, C/S)
Rabi 2022-23	Chickpea	RVG-204	200	12.5	105.0	C/S
	Lentil	IPL-316	450	28.0	213.0	C/S
Summer/Spring 2023	Green gram	Virat	350	22.0	167.0	C/S
Kharif 2023	Target Revised	-	-	-	-	-

iii) Financial Progress

Year	Opening Balance (1 st April)	Fund Utilized	Fund Earned (by seeds sale)	Interest gained/ Subsidy received if any	Closing Balance (31 st March,)	Remarks (if any)
2018-19	72.97537	23.39741	8.12463	1.77777	83.48036	
2019-20	83.48036	3.82267	5.33943	2.96632	87.96344	
2020-21	87.96344	4.51627	1.00750	2.92857	87.38324	
2021-22	87.38324	1.19333	0.05090	1.91152	88.15824	
2022-23	88.15824	1.44705	9.00895	2.65966	98.37979	

iv) Infrastructure Development

Item	Progress
Seed processing unit	Done
Seed storage structure	

3.6 PUBLICATIONS, HUMAN RESOURCES DEVELOPMENT & AWARDS & RECOGNITION

(A) Literature Developed/ Published (with full title, author & reference)

Item	Title	Author's name	ISBN No./ISSN Copy	Circulation
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Research paper	1. Studies of Phenological growth stages of <i>different Psidium guajava</i> L cultivar through BBCH scale under subtropical condition.	Vikas Yadav, S. Rajan, J. C. Chandola, Sushma Tamta, D. S. Mishra, Ajit D Raj, T. S. Bisht, Laxami Rawat, L. P. Yadav, Ramniwas, Gangadhara K. and A. K. Singh.	AMA- Agricultural Mechanization in Asia Africa and Latin America, 54(8): 15257 – 15266.	
	2. Efficacy of Napier grass for controlling sediment outflow under concentrated overland flow conditions.	Sushma Tamta, Jitendra Chandra Chandola and Akhilesh Kumar. 2023.	AMA- Agricultural Mechanization in Asia Africa and Latin America.	
	3. Effect of fibrous root system to control soil erosion under concentrated overland flow conditions.	Sushma Tamta, Akhilesh Kumar and Jitendra Chandra Chandola.	The Pharma Innovation Journal.	
	4. Effect of Plant Growth Regulator on Growth, Yield, Quality and Economic of Summer Squash (<i>Cucurbita pepo</i> L. Var. Pattypan) in Mid Hills of Uttarakhand.	Dobhal, A., Pant, S. C., Chandola, J.C., Panwar, A. and Kumar, V.	International Journal of Plant & Soil Science, 34 (24): 855-862.	
Seminar/conference/ symposia papers	-	-	-	
Books	1.Recent Advances in Horticultural Crops.	Mandloi, D.S., Chandola, J.C. , Pawaiya, S.K. and Kumar, P.	<i>Elphinstone Publication and Distribution</i> , New Delhi. ISBN: 978-81-964974-5-3.	-
Bulletins	1. Components of Natural Farming and its uses. Published by	J.C. Chandola, V. Kumar. A.K. Singh, S.S. Patel. R.M. Ram, Anupama Kumari and M.S. Kundu., 2023.	Publication centre, DRPCAUPusa.	
	2. Natural Farming- An Introduction. Published by	V. Kumar, J.C. Chandola, A.K. Singh, K.L. Regar, Anupama Kumari	Publication centre,	

		and M.S. Kundu., 2023.	DRPCA Pusa.	
News letter	-	-	-	
Popular Articles	1. Papitey Ki Vyavsayik Kheti Se Sabal Bane Kishan. 2. Diseases of Paddy and their management 3. Remote sensing and application in agriculture 4. Solar-Powered Irrigation Systems: A Sustainable Solution for Irrigation	J.C. Chandola, V. Kumar. A.K. Singh and M.S. Kundu., 2023. R.M Ram, J.C. Chandola, S.S Patel K.L. Regar, V. Kumar. A.K. Singh A Kusuwaha, J.C Chandola, V Kumar, S.S Patel Patel S. S , Singh A. K. , Kumar V. , Ram R. M. , Regar, K. L. , Chandola, J.C.	Kisan Bharti. Agritech today 8(9) Agritech today; 9(1) Agritech, 1(1)	
Extension Pamphlets/ literature	-	-	-	
Technical reports	-	-	-	-
Electronic Publication (CD/DVD etc)	-	-	-	
TOTAL	11	-	-	-

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(B) Details of HRD programmes undergone by KVK personnel:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Workshop	CRA Annual Review Workshop	Dr. Kanhaiya Lal Regar, SMS, Soil Science	18-19 th January, 2023	ICAR-ATARI, Patna
2.	Workshop	CFLD Workshop	Dr. Abhay Kumar Singh, Senior Scientist & Head, Dr. Kanhaiya Lal Regar, SMS, Soil Science	18 th March 2023	ICAR-ATARI, Patna
3.	Capacity Building Programme	Natural farming for SMSs	Dr. Saurabh Shankar Patel, SMS, PHT, Dr. J.C. Chandola SMS (Horticulture), Dr. Kanhaiya Lal Regar, SMS, Soil Science Dr. Ratul Moni Ram, SMS (Plant Protection)	25 th to 27 th March 2023	DRPCA, Pusa

4.	Training	Drone Pilot Training	Dr. Saurabh Shankar Patel, SMS, PHT	26 th May to 02 nd June 2023 at Gurugram	ICAR
5.	Workshop	Presented the salient achievements of KVK Saran for the period 2022 and action plan for the period 2023 under Zonal Workshop of KVKs under Zone-IV	Dr. Abhay Kumar Singh, Sr. Scientist & Head. KVK Saran	08 th to 10 th July 2023 at Ranchi	ICAR-ATARI, Patna
6.	Workshop	State level workshop on Natural farming	Dr. Abhay Kumar Singh, Senior Scientist & Head, Dr. J.C. Chandola SMS (Horticulture)	17 th to 18 th September 2023 at Motihari and Piprakothi	ICAR
7.	Workshop	Promotion of Millets in Bihar through FPOs under Changing climatic conditions	Dr. Kanhaiya Lal Regar, SMS, Soil Science Dr. Ratul Moni Ram, SMS (Plant Protection)	27 th September 2023 at DRPCA, Pusa	DRPCA, Pusa

D. Details of attachment training (RAWE/ FET for ARS/Others) through KVK

Type of attachment	No of student trained	No of days stayed
-	-	-

E. Awards/Recognition

Institutional Award received by KVK

Sl. No.	Name of the Award	Conferring Authority	Amount	Purpose
-	-	-	-	-

Award received by KVK Scientists

Sl.	Name of the Award	Name of the Scientist	Value in Amount/	Purpose	Conferring Authority
-	-	-	-	-	-

Award received by Farmers

Sl.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferring Authority
1.	Innovative farmer Award	Mr. Shatrughan Yadav	Dumri, Manjhi block, Saran	9661172607	482826377051	5000	Outstanding work in Agriculture in the district	DRPCA, Pusa
2.	District Millionaire Farmer	Mala Kumari	Ghurahu Kothiya, Dariyapur, Saran	7903311431	707407601384	-	Outstanding work in Agriculture	ICAR & Mahindra Tractor

	of India Award						in the district	
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3.7 Technology Development

A. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1.	Pretreatments of fresh Button mushroom for shelf life extension	Dr. Saurabh Shankar Patel, SMS, PHT	Button mushroom is very perishable in nature, It starts deteriorating just after the plucking and farmers are forced to sell it within one day. With the help of pretreatment agents (0.05% KMS+0.5 % CaCl ₂ and 0.5% NaCl) will improve its appurtenance and shelf life upto 7 days at refrigeration conditions.
2	Bamboo based Vertical farming	Smt Sunita Prasad W/O Satyendra Prasad Vill- Bareja, Manjhi, Saran- 841201 Contact- 9931252609	The farmer earlier practiced vertical farming on plastic pipes, but later switched to bamboo-made pipes. Thus, she saves the cost of pipes by nearly 10%.

B. Give details of Organic farming practiced/Indigenous Technology/ITK practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Plantation fruit crops	The kerosene-soaked swap is put at the place where the stem borers are damaging the fruit trees	Control of stem borer in fruit trees
2	Soil fertility management	Staying the animals in the field for 1 or 2 nights is done to increase fertility of soils	Improvement of soil fertility
3	Paddy	Neem oil is mixed with water @ 30ml./lit. and sprayed	To control stem borer in rice.
4	Pointed Gourd	Planting of pointed gourd through manual earth diggers (Rumba) by farmers is quite popularized among farmers	Save moisture
5	Fruit trees	Straw wrapped around the tree trunks to control insects from crawling upwards	Straw acts as physical barrier for insects
6	Cereal crops	Spreading of litter of Nilgai in crop field boundary for management of Nilgai from attacking crop field	Nilgai do not harm the crop field where their litter is spread.

Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Wheat	0.72	2.41 q	2	Y
2	Rapeseed	0.36	4.63 q	3	Y
3	Lentil	0.68	3.71 q	2	Y
4	Maize	0.41	11.27 q	4	Y
5	Papaya	0.3	58 q	3	Y
6	Tomato	0.6	57 q	2	Y

C. Indicate the specific training need analysis tools/methodology followed by KVKs

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1.	Projector	For sowing videos in training and others programme

4. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Cropping System and farming System approach to sustainable agriculture	39	63	20000/ha	25000/a
Resource conservation Technology	127	70	17000/ha	20000/ha
INM	203	64	18000/ha	25000/ha
IPM	128	59	21000/ha	18000/ha
Seed Production	45	39	26000/ha	46000/ha
Vermicompost Production	64	40	4800/unit	14400/unit
Mushroom production	274	46	NIL	50000/annum

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

4.2. Cases of large-scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
Seed treatment	78%
Use of Improved or HYV	76%
Use of Biofertilizer	34%
Use of Vermicompost in vegetable	35%
IFS	12%
Mushroom Production	47%
Seed Production	54%
Zero tillage technology	40%
Pre-treatments of mushroom	66%

Give information in the same format as in case studies

4.3 Details of impact analysis of KVK activities carried out during the reporting period

An impact analysis was done in the adopted villages through questionnaire, PRA, group discussion, Question answer series and it was found that INM, RCT, Integrated Farming approach, Farming Systems approach and Increasing the fertilizer use efficiency have great impact on the farmers

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
-	-	-	-

4.4. Details of innovations recorded by the KVK

Thematic area	Resource Conservation
Name of the Innovation	Relay cropping of vegetable with Paddy
Details of Innovator	Narvadeshwar Giri, Vill-Affaur, Nagra-block, Distt- Saran, Ph.No.9973077637/8292054096
Back ground of innovation	Age-60 years Education-Graduation Land holding-2 ha Farming experience-10 years Crop grown-Wheat, maize, rapeseed, mustard, long melon, tomato, brinjal, paddy. Life stock -cow2, buffalo-2, calf-1 Social recognition- -Member of VCRMC (NICRA)
Technology details	He evolved relay cropping of vegetables with paddy [Brinjal-Tomato-cucumber/long melon-Paddy]. Sowing of brinjal in nursery was done by 15 th August and transplanting in the main field by 15 th September at 6 feet ×3 feet distance on permanent beds. Seedlings of Tomato were raised in a separate nursery in last week of November and transplanting was done in between the rows of brinjal at a distance of 4 feet. The plant geometry was so maintained that there was no shading effect of Brinjal on tomato. Now cucumber and long Melon was sown directly in between the plants of tomato at a distance of 2 feet by 25 th February or the atmospheric temperature was around 22-23°C. The creepers were allowed to grow on the ground and no staking was done. To prevent the fruit from soil contact natural mulch of grass, weeds and paddy straw was done.
Practical utility of innovation	For managing probable nocturnal insect pests inhabiting in the grass mulch, Neem based insecticide was used prepared by the farmers himself. Sesbania was grown in the field by 25-30 th May and it was incorporated in the field at 45 days duration irrespective of monsoon break with supplemental irrigation. Short duration paddy was then taken in the field after puddling. Thus farmers get could get gross economic return of Rs. 60000.00 from one ha of land.

Thematic area	Crop production
Name of the Innovation	Multiple cropping in guava garden
Details of Innovator	Shri Umeshwar kumar Singh, Vill-Affaur, Nagra-block, Distt- Saran Ph.No. 8084041776
Back ground of innovation	Age-60 years Land holding-10ha Farming experience-30 years Crop grown- Paddy, wheat, enterprise pond, fish farming, rapeseed, red gram. Life- stock – Four milk animals Social recognition- chairman of VCRMC (NICRA), Chairman of PACS, Dealer of PDS (Public Distribution System)
Technology details	A Guava based Multiple Cropping System taking 4 crops per year apart from main crop of guava. He established guava garden keeping planting geometry in such a manner that there was easy movement of tractor operated farm implements and no shading effect of guava canopy on the agricultural crops. Regular training and pruning of guava was done was done to keep the canopy well maintained. Four rows kharif maize was planted in between the two rows of guava. All the farm operations were done as usual based on maize recommendations. After the

	harvest of maize, Toria was taken that could be harvested by 15 th of January. Now summer vegetables like bottle gourd + Lady's finger was taken. Banana was planted all around the guava garden to give a protective wall and to act as wind break apart from giving additional yield.
Practical utility of innovation	During summer months, natural mulch of paddy straw was applied in the bottle gourd + Lady's finger and worms were released in the field for in situ vermicomposting, moisture retention and nutrient supply for longer periods. Thus Shri Umeshwar Singh could get a Gross Income of more than 80000.00 per ha from the guava garden.

4.5. Success stories/Case studies, if any (two- or three-pages write-up on 1-2 best case(s) with suitable action photographs)

Case: 1

Name of farmer	Sri SatruganYadav			
Address	Village + PO- Dumri, Block-Manjhi, District: Saran, Bihar-841313			
Contact details (Phone, mobile, email Id)	9661172607			
Landholding (in ha.)	3.80 ha			
Name and description of the farm/ enterprise	Resource Conservation Technology (zero tillage, Plastic mulching, raised bed planting maize, Intercropping of potato + maize)			
Economic impact	Field crops			
	Year	Gross Return	Net Return	B:C Ratio
	2018-2019	27415.80	12438.11	1.99
	2019-2020	30163.50	14238.26	2.04
	2020-2021	36697.50	20369.30	2.37
	2021-2022	41439.48	26641.91	3.04
	2022-2023	44771.10	29704.86	3.21
	Horticultural crops			
	Year	Gross Return	Net Return	B:C Ratio
	2018-2019	27415.80	18829.31	2.04
	2019-2020	30163.50	18990.35	2.00
	2020-2021	36697.50	29868.28	2.41
	2021-2022	41439.48	42756.92	3.16
	2022-2023	44771.10	54645.62	3.89
	Livestock			
	Year	Gross Return	Net Return	B:C Ratio

Social impact	2018-2019	51750.00	32250.00	2.75
	2019-2020	51750.00	32250.00	2.75
	2020-2021	108000.00	71000.00	3.04
	2021-2022	126000.00	83500.00	3.01
	2022-2023	144375.00	101875.00	3.42
	The cost of cultivation has drastically reduced by mulching practice because it minimizes the weeding as well as irrigation cost. Now a day scarcity of water, extreme high and low temperature, the mulching practice has proved a better option for saving of input cost as results enhances the livelihood of farmers.			
Environmental impact	- Soil moisture conservation which reduced the no. of irrigations - Regulate the soil temperature which promote the root growth and nutrient use efficiency - Reduction in pest and disease infestation - Enhancement in quality of produced - Reduces the greenhouse gas			
Horizontal/ Vertical spread	After adoption of mulching practice in tomato I have motivated 9 farmers to take vegetables crop under mulching in about 1.5 ha of land. The saving in cost and the timeliness of operation impressed the farmers and so they are adopting this technology			
				
Silver color plastic mulching in tomato		Flowering stage of tomato under plastic mulching		

	
Zero tillage wheat (Var. HD 2967)	Dairy

Case: 2

Name of farmer	Mithun Kumar			
Address	Village: Sitalpur Dih, Post: Sitalpur, Block-Dighwara, District: Saran, Bihar			
Contact details (Phone, mobile, email Id)	9304712209			
Landholding (in ha.)	1.5 ha			
Name and description of the farm/ enterprise	Round year production of button mushroom			
Economic impact	Mushroom profitability (Rs./ annum)			
	Year	Gross Return	Net Return	B:C Ratio
	2018-19	80,000	25,000	1.45
	2019-20	1,20,000	45,000	1.60
	2020-21	2,75,000	1,10,000	1.67
	2021-22	4,50,000	2,80,000	2.65
	2022-23	7,50,000	4,70,000	2.68
	Livestock			
	Year	Gross Return	Net Return	B:C Ratio
	2018-19	-	-	-
	2019-20	90,000	40,000	1.80
	2020-21	1,30,000	70,000	2.16
	2021-22	1,30,000	70,000	2.16
	2022-23	2,40,000	1,40,000	2.40
	Social impact	Mushroom production enhanced the livelihood security of marginal farmers through generating 5 years average annual income of Rs.186000.00		
Environmental impact	Mushrooms are environmentally very friendly. They biosynthesize their own food from agricultural crop residues, which, just like solar energy, is readily available and sustainable.			
Horizontal/ Vertical spread	After set-up AC mushroom growing chamber in 2022 and first crop give a gross return of around 3 lakh. Through my well established mushroom			

		enterprise farmers of neighbor motivate and around 25 farmers had started mushroom farming
		
Mushroom growing chamber		Guidance for compost production
		
Cultivation of Button mushroom		Dairy Unit

4.6. Any other initiative taken by the KVK

Sl. No	Activity	Number of farmers	No. of Villages/Blocks
1	Farm Advisory Service through SMS	50000	122
2	Advisory Service through Phones	As and when needed	
3	Provision of free internet facility to the farmers when required	As and when needed	
4	Farmers linkage through Kisan Sarathi	Availability of KVK Scientist throughout the year for solving query on phone	
5	Farmers advisory through Whatsapp group	As and when needed	

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
District Agriculture Department	Identification of training needs Joint implementation of training programme Diagnostic Team visits

	Identification of target groups
DRDA, Saran	Sponsored Training Programme & Joint Implementation of Developmental Programme
Agriculture Technology Management Agency (ATMA) Saran	Sponsored Training Programme & Joint Implementation of Developmental Programme Sponsored Training Programmers Preparation of SERP Identification of target groups
District Horticulture Department Saran	Joint participation in meetings Demonstration of Biofertilizers Joint implementation of training programme, Diagnostic Team visits. Identification of target groups
Joint Director, Agriculture Saran	Joint Implementation of Training programme Diagnostic team visits Identification of training needs
Jeevika	Training Programme
NABARD	Training Programme and Kisan club formation
NYK	For technology transfer
MGNAREGA	For development in villages and KVK premises

5.2. List of special programme undertaken during 2023 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (information of previous years should not be provided)

a) Programmes for infrastructure development

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Farmer Scientist Interaction	Interact with farmers	29-30 Aug 2023	ATMA	20000

(b) Programme for other activities (training, FLD, OFT, Mela, Exhibition etc.)

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
-	-	-	-	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1. Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Mushroom	2013	600	Oyster mushroom		150 kg	5000	15000	

2	Fruit preservation	2013	24	-	-	-	-	-	
3	Technology park	2019	3654	-	Cereals, vegetables, pulses, flowers, medicinal plants, fodder crops	-	-	-	
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	09.06.23	20.11.23	6.0	Rajshree	C S	193.25	-	-	
Wheat	10.12.22	25.04.23	4.0	WB-02	C S	41.0	-	-	
Pea	05.11.22	24.03.23	0.5	(HUDP-15)	F S	2.50	-	-	
Lentil	27.10.22	21.03.23	1.0	IPL-220	F S	3.22	-	-	
Rai	12.11.22	07.04.23	1.0	R.Suflam	T L	9.0	-	-	
Potato	16.11.22	30.03.23	0.7	(Kufri Sindhuri, K.chipsona)	F S	27.5	-	-	
Linseed	16.11.22	23.03.23	0.5	Sekhar	T L	0.50	-	-	
Pigeon pea	05.07.22	25.04.23	1.0	R. Arhar 1	C S	12.0	-	-	

6.3. Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	2760	16925	27600	Used in farm

6.4. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Bull	Jersey	Natural insemination	2	24000	54500	

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
-	-	-	-

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes but needs renovation

No. of staff quarters: 06

Date of completion: 2009

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI
January to December 2023	QI is occupied and other 5 quarters are empty and needs renovation					

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK Current	Indian Bank	Manjhi	20928184086
KVK Revolving (Saving)	Indian Bank	Manjhi	20928304406
KVK Seed Hub (Saving)	Indian Bank	Manjhi	50409575779
Natural Farming (Saving)	State Bank of India	Daudpur	42086780408
CFLD Pulses (Saving)	State Bank of India	Daudpur	42372292485
CFLD Oilseed (Saving)	State Bank of India	Daudpur	42372295838

7.2. Utilization of funds under CFLD on Oilseed (Rs.)

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Oilseed	i) Critical input	0	120755	-120755
	ii) TA/DA/POL etc. for monitoring	-	-	-
	iii) Extension Activities (Field day)	0	-	-
	iv) Publication of literature	-	-	-
	Total	0	120755	-120755

7.3 Utilization of funds under CFLD on Pulses (Rs.)

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pulses	i) Critical input	0	63700	-63700
	ii) TA/DA/POL etc. for monitoring	0	0	0

	iii) Extension Activities (Field day)	0	2100	-2100
	iv) Publication of literature	-	-	-
	Total	0	65800	-65800

7.4. Utilization of KVK funds during the year 2023 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	13063400	10450800	9760962
2	Traveling allowances	90000	90000	49145
3	Contingencies			
A	Office	395982	395982	290495
B	Training	300000	300000	81039
C	FLD	200000	200000	94100
D	OFT	100000	100000	4709
E	Soil and water testing	0	0	0
F	Maintenance	40000	40000	39908
G	Extension activities	100000	100000	7689
H	Swachhta Expenditure	0	0	0
TOTAL (A)		14289382	14289382	10328047
B. Non-Recurring Contingencies				
1	Works	0	0	0
2	Vehicle	900000	900000	0
3	Equipment and Furniture	0	0	0
4	Library	0	0	0
TOTAL (B)		900000	900000	0
C. REVOLVING FUND		0	0	0
GRAND TOTAL (A+B+C)		15189382	15189382	10328047

7.5. Status of Revolving fund (Rs. in lakh) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2021-22	656064	2824324	1951424	1528964
2022-23	1528964	1035744	1725637	839071
2023-24	1151840	961057	1252226	860671

- 7.6. (i) Number of SHGs formed by KVKs
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities
(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activities	Season	With line department	With ATMA	With both
Rabi & Kharif Abhiyan	25	Rabi & Kharif	Y	Y	Y

Farmers training	15	Rabi &Kharif	Y	Y	Y
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7.8 Revenue generation

No. of Events added by KVK	No. of Facilities added by KVK	No. of filled Report on Package of Practices				No. of filled Profile Report								
		Crop	Horticulture	Livestock	Fisheries	Employees	Posts	Finance	Soil Health Cards	Appliances	Crops	Resources	Fish	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sl.No.	Name of Head			Income (Rs.)						Sponsoring agency				
1.	-			-						-				

7.9 Resource Generation

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
-	-	-	-	-	-

8. MISCELLANEOUS INFORMATION

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
Anthracnose	Mango	16.04.23	69	31	Spray of Methyl thiophenate
False smut	Paddy	27.09.23	84	20	Spray of copper oxychloride
Wilt	Chickpea	24.11.23	72	36	Spray of copper oxychloride
Late blight	Potato	28.12.23	54	28	Spray of Dithane M-45

8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
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8.3. Nehru Yuva Kendra (NYK) Training

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	Male	Female	
NA	NA	NA	NA	NA	NA

8.4. PPV & FR Sensitization training Programme

	Resource Person	No. of participants	Registration (crop wise)
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Date of vaccination programme			Name of crop	No. of registration
-	-	-	-	-

8.5. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	NA
2.	No. of farmers registered in the portal	NA
3.	Mobile Apps developed by KVK	NA
4.	Name of the App	NA
5.	Language of the App	NA
6.	Meant for crop/ livestock/ fishery/ others	NA
7.	No. of times downloaded	NA

8.6 Details of KVK Portal

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	NA
2.	No. of farmers registered in the portal	NA
3.	Mobile Apps developed by KVK	NA
4.	Name of the App	NA
5.	Language of the App	NA
6.	Meant for crop/ livestock/ fishery/ others	NA
7.	No. of times downloaded	NA

8.7 Kisan Mobile Advisory Services/KMAS (m-Kisan Portal/National Farmers Portal/SMS Portal)

Type of message	No. of messages	No. of farmers covered
Crop	3	11316
Livestock	2	10299
Fishery	2	3345
Weather	1	3228
Marketing	2	13215
Awareness	5	6371
Training information	6	12105
Other		
Total	17	59879

8.5 Kisan Sarathi

Name of KVK	No. of Farmers Registered on Portal
Saran	11670

8.6. a. Observation of Swachhta hi Sewa (2nd -31st Oct 2023)

Date	Name of activities as per theme	Total No. of Participants	No. of VIPs Attended the programme	No. of farmers participated
02-10-2023	Swachhata pledge by KVK staffs, display of banners and plantation in KVK premises	08	0	0
12-10-2023	Digitization of office records, cleanliness drive of KVK office and corridor, disposing of old and obsolete materials	10	0	0
13-10-2023	Cleanliness and sanitation drive in Gurdaha village Manjhi	17	0	17
17-10-2023	Cleanliness drive in office premises and other surrounding areas	14	0	5
18-10-2023	Waste management, disposal of organic wastes into vermi-compost unit	11	0	11
20-10-2023	Cleanliness drive in office premises and other surrounding areas	11	0	11
26-10-2023	Cleanliness drive of nearby village	09	0	09
27-10-2023	Office Campus Cleaning and Plantation drive	06	0	06
28-10-2023	Awareness on Waste Management	14	0	14
30-10-2023	Cleaning of staff quarters and surroundings	61	2	51

b. Observation of Swachta Pakhwada (15 Dec -31st Dec 2023)

Date/ Duration of Observation	Total No of Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
Cleaning of office premises, cleaning in villages and its surroundings, etc	15	225	450	0	675

c. Details of quarterly budget expenditure on Swachh activities including SAP

S.No	Activities	No of village covered	Total Expenditure (Rs.in Lakhs)
1.	Vermicomposting	-	-
2.	Other than vermicomposting activities under Swachata	-	-

8.7. Details of 'Pre-Rabi Campaign' Programme

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha/ Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)							Coverage by Door Darshan (Yes/No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman ZilaPanchayat	Distt. Collector/ DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.	Total		
-	-	-	-	-	-	-	-	-	-	-	-	-

8.8 . Vikisit Viksit Bharat Sanklap Yatra (LLB and ULB)

Sl.	No of events attended	No. of Gram Panchayat covered	Total no of farmer participated	No of Lecture Delivered on Soil Health/ Natural Farming
1	35	126	73480	378

8.9. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Bihar	Saran/ KVK, Manjhi, Saran	Contingent plan	Awareness programme- 10 nos.	340	Annexed below

Sowing window for 5 major field crops

Sowing window	Rice	Maize	Pigeonpea	Wheat	Rapeseed and mustard
Kharif-Rainfed		1 st week of June to 4 th week of June	3 rd week of June to 1 st week of July		
Kharif-Irrigated	1 st week of June to 1 st week of July				

Rabi-Rainfed		3 rd week of October to 4 th week of November		3 rd week of October to 1 st week of November	
Rabi-Irrigated		1 st week of November to 1 st week of December		2 nd week of November to 1 st week of December	3 rd week of September to 2 nd week of October

Prone to major contingency of the district (Tick mark)

Major contingency	Regular	Occasional	None
Drought	√		
Flood	√		
Cyclone			√
Hail storm			√
Heat wave	√		
Cold wave	√		
Frost		√	
Sea water intrusion			√
Pests and disease outbreak		√	

Average value of soil health parameters (pH, EC, OC & Macronutrients) of different Blocks of Saran District:

Sr. No.	Name of Blocks	pH	EC (ds/m)	OC (%)	Macro Nutrients			
					N (kg/ha)	P ₂ O ₅ (kg/ha)	K ₂ O (kg/ha)	S (kg/ha)
1.	Maker	8.01	0.89	0.31	225.50	29.60	186.65	19.50
2.	Amour	8.36	0.60	0.39	191.10	26.50	178.10	26.40
3.	Marhaura	8.33	0.42	0.46	221.60	32.60	164.16	19.60
4.	Nagra	8.04	0.70	0.33	182.40	21.50	115.30	19.46
5.	Garkha	8.14	0.49	0.41	220.40	28.40	174.50	19.29
6.	Chhapra	8.15	0.53	0.51	221.50	26.40	163.15	21.53
7.	Parsa	8.14	0.98	0.45	231.90	29.70	145.60	22.28
8.	Reevilganj	7.59	0.39	0.41	216.40	31.40	186.42	20.33
9.	Manjhi	7.74	0.47	0.51	236.30	36.10	175.89	21.40
10.	Ekma	7.88	0.59	0.55	261.80	29.40	165.03	29.60
11.	Masharakh	7.91	0.54	0.42	230.10	22.50	182.85	28.50
12.	Lahladpur	7.99	0.76	0.49	251.40	21.40	149.88	21.40
13.	Baniyapur	8.02	0.62	0.39	219.60	19.80	169.01	26.30
14.	Panapur	8.26	0.84	0.32	221.30	21.50	159.60	19.60
15.	Taraiya	8.28	0.65	0.34	226.90	20.40	166.42	27.60
16.	Jalalpur	8.05	0.48	0.55	251.20	19.70	165.50	21.20
17.	Dariyapur	7.88	0.53	0.44	235.60	22.40	155.60	23.60

18.	Sonepur	7.70	0.58	0.35	245.80	29.70	172.12	21.25
19.	Ishuapur	8.12	0.38	0.40	216.50	24.50	169.50	27.81
20.	Dighawara	8.52	0.41	0.29	196.50	23.60	156.40	26.50

Average value of soil health parameters (Micronutrients) of different Blocks of Saran District:

Sr. No.	Name of Blocks	Micro Nutrients (mg/kg)				
		Zn	Cu	Fe	Mn	B
1.	Maker	0.45	2.87	14.66	7.34	0.47
2.	Amour	0.56	3.06	15.37	5.19	0.52
3.	Marhaura	0.62	3.45	14.86	6.22	0.58
4.	Nagra	0.42	2.77	19.98	7.33	0.58
5.	Garkha	0.74	1.79	12.6	3.62	0.6
6.	Chhapra	0.65	3.45	19.77	4.8	0.52
7.	Parsa	0.38	1.93	14.19	5.38	0.59
8.	Reevilganj	0.41	3.47	17.3	5.61	0.76
9.	Manjhi	0.39	2.15	14.32	4.85	0.67
10.	Ekma	0.51	1.69	13.32	7.42	0.71
11.	Masharakh	0.69	1.32	15.65	6.21	0.57
12.	Lahladpur	0.78	2.11	11.4	6.17	0.66
13.	Baniyapur	0.69	2.58	12.62	6.61	0.6
14.	Panapur	0.71	1.21	12.94	4.5	0.61
15.	Taraiya	0.64	1.08	11.64	3.65	0.47
16.	Jalalpur	0.62	1.43	11.98	2.8	0.58
17.	Dariyapur	0.76	1.64	22.46	4.68	0.57
18.	Sonepur	0.71	1.62	19.39	6.67	0.58
19.	Ishuapur	0.39	2.69	9.44	5.14	0.86
20.	Dighawara	0.41	2.04	11.9	3.98	0.49

Climate Variability Challenges:

Historical trends in rainfall		Decadal average		
		1990-2000	2000-10	2010-20
No. of rainy days		55.3	43.2	54.8
No. of dry spells during kharif season	>10days	3.4	4	5.1
	>15days	1.2	1.4	1.8
	>20days	1	1	0.8

No. of intensive rain spells	>60 mm per day	3	1	2.4
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The different strategies for weather related contingent plan for drought, rainfed, unusual rain, outbreak of pest and diseases, floods, extreme variables including heat/cold waves/hailstorm/ cyclone etc. for agricultural crops and livestock including poultry have been prepared by the KVK team and submitted to DRPCA, Pusa for onward submission to ICAR-CRIDA, Hyderabad for uploading.

9. Information on Visit of Ministers to KVKs, if any

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)
-	-	-	-

10. List of other visitors (MP/MLA/DM/VC/Zila Parishad/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit
24-03-2023	Dr. D.K. Roy, Director of Seed, DRPCA, Pusa	To visit the KVK farm and monitor the ongoing seed production programme at KVK
23-12-2023	Dr. Abdus Sattar, Senior Scientist, Dept. of Ag. Meteorology, DRPCA, Pusa	To visit KVK premises and collect data on experimental trial on water productivity in rice field

11. PROJECT-WISE REPORTING (Applicable for KVKs identified under the given project)

Information of NARI Project (if applicable)

Name of Nodal Officer	No. of OFT on specified aspects	Title(s) of OFT	No. of FLD on specified aspects	No. of capacity development programme on specified aspects	Total no. of farm women/ girls involved in the project	Details of Issues related to gender mainstreaming addressed through the project
Dr. J. C. Chandola (SMS- Horticulture)	-	-	-	5	95	-

Progress Information of NARI Project

a. Details of established Nutrition Garden in Nutri-Smart village

Sl.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.	Shitalpur	Backyard/Kitchen garden	4	1500	3
2.	-	Community level	-	-	-
3.	-	Terrace Garden	-	-	-
4.	Daudpur	Vertical Garden	06	1200	6
TOTAL			10	1206	9



b. Details of Bio-fortified crops in Nutri-Smart village

Name of Nutri-Smart Village	Season	Activity (OFT/FLD)	Category of crop (cereal/pulses/oilseed/fruits & veg./others)	Name of Crop	Variety	Area (ha)	No. of beneficiaries
-	-	-	-	-	-	-	-

c. Value addition in Nutri-Smart village

Name of Nutri Smart Village	Name of Crop/veg./fruits/other	Name of Value-added product	Activity (OFT/FLD)	No. of farmers/beneficiaries
Bareja	Mushroom	Mushroom nuggets, mushroom papad	FLD	12

d. Training programmes in Nutri-Smart village

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries
Aphaur	Vegetables	9	105
Babhanaiya, Garkha	Vegetables	2	36

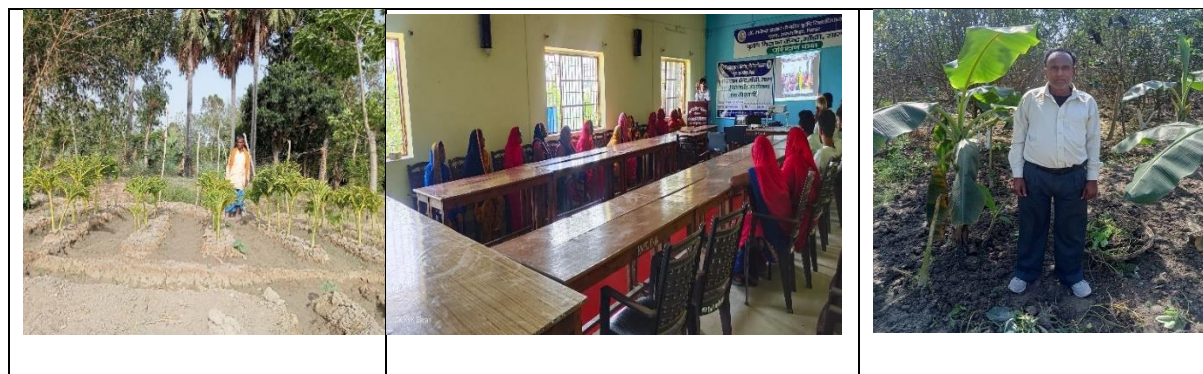
e. Extension activities under NARI Project

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries
Vishunupura, Jalalpur	Awareness programme, Field visit	2	19
Dumduma, Manjhi	Diagnostic field visit, training programme on importance of lettuce	2	18
Sargatti, Garkha	Training and Field day	2	21
Fuchati Khurd, Ekma	Training on cultivation of cole crop	2	16
Karah, Baniyapur	Training on tuber crops, diagnostic field visit	2	15
Durgapur, Manjhi	Layout of nutria garden and importance of nutria garden	2	12
Sadar Chhapra, Chhapra	Layout of nutria garden and importance of nutria garden	2	15



Details of SCSP Programme

Sl.	Activities	Physical Achievement	
		No. of Trainings/Demos	No. of beneficiaries
1)	Trainings		
a.	Farmer	2	56
b.	Women	1	45
c.	Rural Youths	1	40
d.	Extension Personnel	0	0
2)	OFT	No. of OFTs	No. of beneficiaries
		-	-
3)	FLD	No. of FLDs	No. of beneficiaries
	High Yielding variety of Papaya (var. Red Lady)	1	20
	High yielding variety Tomato cultivation	1	20
	Crop diversification through Brinjal	1	15
	Income enhancement through cultivation of garlic	1	10
	Income enhancement through cultivation of cabbage	1	20
	Income enhancement through cultivation of cauliflower	1	20
	Income enhancement through cultivation of elephant foot yam	1	05
	Income enhancement through cultivation of turmeric	1	05
	Drudgery reduction during weeding through grubber	1	100
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
		5	845
5)	Other activities		
a.	Participants in extension activities (No.)		04
b.	Production of seed (q)		-
c.	Production of Planting material (No. in lakh)		-
d.	Production of Livestock strains (No. in lakh)		-
e.	Production of fingerlings (No. in lakh)		-
f.	Testing of Soil, water, plant, manures samples (Nos.)		-



a. Details of recipe contest (if applicable)

No of events organized	Name of location/village	No. of participants
1 Recipe contest of millets	Shepur, Chapra Sadar	32

11.7 Out-scaling of Natural Farming

a. Overall achievements

S.No	Name of Activity	No. of activities	No. of beneficiaries
1.	Awareness programme	22	680
2.	Training programme	03	120
3.	Demonstrations	09	09

b. Details of Training programmes

S.No	Name of training programme	Date	Location/Venue	No. of beneficiaries
1.	Natural Farming	25-11 to 26-11	KVK, Campus	40

c. Details of Awareness programmes

Sl. No.	Activities	Date	Place	No. of participants		Participants category	
				Male	Female	SC	Other
1.	Awareness programme on natural farming	05-01-2023-	Saidpur, Nagra	49	03	06	45
2.	Awareness programme on natural farming-	06-01- 2023	Nawada, Ekma	42	11	08	44
3.	Awareness programme on natural farming-	07-01- 2023	Karah, Baniyapur	50	0	12	38
4.	Awareness programme on natural farming-	10-01-2023	Sonia, Manjhi	47	14	11	50
5.	Awareness programme on natural farming-	11-01-2023	Choukra, Jalalpur	68	01	08	61
6.	Awareness programme on natural farming-	12-01-2023	Bhabhnaiya, Garkha	37	18	13	42
7.	Awareness programme on natural farming-	17-01-2023	Bhadpa, Rivilganj	42	09	12	39
8.	Awareness programme on natural farming-	20-01-2023	Ramnagar, Jalalpur	32	19	11	40
9.	Awareness programme on natural farming-	30-01-2023	Pilui, Manjhi	51	03	14	40
10.	Awareness programme on natural farming	31-01-2023-	Sonbarsa, Manjhi	42	11	8	44

11.	Awareness programme on natural farming	02-02-2023	Rampurhat, Riveelganj	29	26	28	27
12.	Awareness programme on natural farming	13-02-2023	Manjhowalia, Manjhi	27	25	18	34
13.	Awareness programme on natural farming	14-02-2023	Sahpur Diara, Sonpur	39	12	5	46
14.	Awareness programme on natural farming	21-02-2023	Repura, Rivilganj	19	45	30	34
15.	Awareness programme on natural farming	01-03-2023	Mohabaad, Parsa	41	10	15	36
16.	Awareness programme cum Live telecast of Production and Opportunity in millets on natural farming	18-03-2023	KVK, Manjhi	48	17	19	46
17.	Awareness programme on natural farming	22-03-2023	Harshpura, Manjhi	51	1	16	36
18.	Awareness programme on natural farming	23-03-2023	Bharwalia, Manjhi	50	4	12	42
19.	Awareness programme on natural farming	24-03-2023	Dharpura, Manjhi	49	1	12	38
20.	Awareness programme on natural farming	29-03-2023	Chubah Sthan, Manjhi	18	34	16	36
21.	Awareness programme on natural farming-	30-03-2023	Gurdaha Khurd, Manjhi	37	19	18	38
22.	Awareness programme on natural farming	30-03-2023	KVK, Manjhi	51	0	18	33
23.	Awareness programme on natural farming	30-04-2023	KVK, Manjhi	57	18	15	60

a. Details of Demonstrations

S.No.	Name of Farmers	Address	Mobile No.	Aadhar No.	Crops
1	Narmedeshawer Giri	Saidupur Mathia, Nagra	9110968896	637298473596	Wheat, Turmeric, Masambi
2	Bagendra Mahto	Sheetalpur, Manjhi	9801168362	475115591138	Cauliflower, Marigold

3	Shatrughan Yadav	Dumri, Manjhi	9661172607	482826377051	Wheat, Tomato
4	Sunita Prasad	Bareja, Manjhi	9931252609	408337720568	Potato, Turmeric
5	Satnarayan Yadav	Godhapar, Manjhi	9334657566	213368984345	Wheat, Maize
6	Vijay Kishore Singh	Chaukhara, Jalalpur	9714533465	692043378259	Wheat, Garlic, Onion
7	Avinash Kumar	Karah, Baniyapur	7903971775	447097380732	Wheat, Banana
8	Munna Babu	Baldiha, Nagra	8002153983	375118156449	Wheat, Papaya

11.11 Agri-Drone

S.No	Name on the project implementation center (PIC)	No. of kisan drones sanctioned	No. of kisan drones purchased by the PIC	Procurement of no of drones in process	Area covered under the kisan drone demonstration (ha)	No. of demonstration conducted	No. of Pilot training proposed	No. of Pilot training conducted
1.	KVK Saran	01	01	00	02	05	-	-

11.12 Integrated Farming System (IFS)

A) Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1.	Cattle	0.0023	2 bull	24000	34800	4	9.65
2.	Goatry	0.0023	4 goats	8000	10000	4	4.21
3.	Azolla	0.000828	360	12000	18000	4	15.62
4.	Composting (Vermicompost + NADEP unit)	0.002208	50	25462	50000	4	18.25
5.	Fish	0.13248	0.25	32573.52	4500	4	10.54
6.	Fodder	0.0736	23.92	1579.0144	16744	4	6.52
7.	Horticulture (Vegetable and fruits)	0.17664	65.18016	11614.08	52144	4	12.24



Fish pond



Alley cropping



Vermicomposting

		
Vermicomposting unit	NADEP unit	Azolla and fodder

B) Activities under IFS :

A total of three pond-based IFS model developed in participatory mode amongst the farming clientele namely Sri Vijay Kishore, village: Chaukhra, Jalalpur, Mr. Prem Prakash, Village: Nandpur, Manjhi and Mr. Prabhunath Singh, village: Koriganwa Bharti, Jalalpur.

1. Farmer Name- Sri Vijay Kishore-Pond based IFS model

Sl. No.	Component Name	Area (ha)/Nos.	Net return (Rs/component)
1.	Fish pond	0.202	140000
2.	Bio-flock	5 nos. tank	50000
3.	Dairy Animal	2	36540
4.	Cereals crop	2.0	33000
5.	Horticultural crops (fruits and vegetables)	0.25	2950
6.	Azolla	0.0005	2000
7.	Composting	0.0005	3000
Total			267490
  			

2. Farmer Name- Mr. Prem Prakash -Pond based IFS model

Sl. No.	Component Name	Area (ha)/Nos.	Net return (Rs/component)
1.	Fish pond	0.497	180000
2.	Dairy Animal	3	56750
3.	Cereals crop	1.659	82000
4.	Horticultural crops (fruits and vegetables)	0.220	62500
Total			381250



3. Farmer Name- Mr. Prabhunath Singh -Pond based IFS model

Sl. No.	Component Name	Area (ha)/Nos.	Net return (Rs/component)
1.	Fish pond	0.101	36700
2.	Dairy Animal	3	62500
3.	Cereals crop	0.101	41612
4.	Horticultural crops (fruits and vegetables)	0.043	24000
5.	Azolla	0.0004	2500
6.	Composting	0.0006	4000
Total			171312





11.13 Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I	-	-	-	-	-
II	-	-			
Total	-	-			

11.14 Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants
1.	Interaction with students of Kendriya Vidyalaya Mashrakh	19-04-2023	Mashrakh	Motivate students toward agriculture	86
2.	Sonepur Mela	04-12-2023 to 26-12-2023	Sonepur	Coordination in Showcasing the	9574

				technology developed by DRPCA, Pusa in Sonapur Mela Co-ordination: Dr. Abhay Kumar Singh	
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1.14.1 Climate Resilient Agriculture Programme” (CRA Program)

The project on “Climate Resilient Agriculture Programme” (CRA Program) sanctioned by the Government of Bihar in 2019 which was initially started in two districts namely Madhubani and Khagaria and later involved the network in 38 districts of Bihar from 2020 onwards assessing the need based technological interventions under climatic resilient practices.

CRA Program is an associated approach of different partners including Dr. Rajendra Prasad Central Agricultural University (RPCAU), Pusa-Samastipur, Bihar Agricultural University (BAU) Sabour, ICAR- Research Complex for Eastern Region (ICAR_RCER), Patna and Borlaug Institute for South Asia (BISA) as a Follow-up of the instruction of the Hon’ble Chief Minister of Bihar, Shri Nitish Kumar ji, to cope up with current future climatic uncertainty and extreme variables owing to shattered the economy of farming clientele.

Project Site at Saran:

Saran district occupies an area of 2,641 square kilometres and is situated between 25°36' and 26°13' north latitude and 84°24' and 85°15' east longitude in the southern post of the Saran Division of North Bihar. The Ganga River provides the southern boundary of the district, beyond which lie the districts of Bhojpur and Patna and to the north of Saran lie the districts of Siwan and Gopalganj

Krishi Vigyan Kendra Manjhi Saran have been entrusted Under RPCAU Pusa to adopt five villages for technological interventions and demonstration of CRA Programme and the details of the villages and GPs coordinates of adopted villages is depicted in the table:



Sl. no.	Village	Block	GPS Coordinates
1	Dumri	Manjhi	25.872644; 84.547899
2	Dharhara	Manjhi	25.859534; 84.596381
3	Samhota	Jalalpur	25.857388; 84.690876
4	Ramnagar	Jalalpur	25.8585; 84.6819

5	Manjiwaliya	Jalalpur	25.848141; 84.649888
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Team members involved from KVK Saran Under CRA Programme

Sl.No	Name and discipline	Role
1	Dr. Abhay Kumar Singh (Animal science)	Center PI/ CO-PI
2	Dr. Saurabh Shankar Patel (Post-Harvest Technology)	CO-PI
3	Dr. Kanhaiya Lal Regar (Soil Science)	CO-PI
4	Dr. Kumbhar Chaitanya Ramesh (Ag.Entomolgy)	Senior Research Fellow

Technological interventions under different seasons:

Unprecedented climate change, together with its associated phenomena such as unpredictable rainfall, extreme temperatures, and so on, has become a major impediment to the agricultural sector's overall development. Bihar is a leading state in agriculture affected by climate change. Bihar government has started project “Climate Resilient Agricultural (CRA) Programme” which is changing farmers’ behaviour towards adoption of climate smart technologies. As per the action plan for **Rabi, Summer and Kharif Season**, we have to conduct following different interventions on farmers field in all the above-mentioned villages.

Rabi Season 2022- 2023					
Sl.no.	Crop	Technological Interventions	Targeted area (Acre)	Achieved area (Acre)	No. of Beneficiary
1	Wheat	Zero tillage	300	300	378
2	Lentil	Zero tillage	50	50	74
3	Maize+ Potato	Intercropping	30	30	40
4	Wheat	Raised Bed Planting (ZT)	75	75	89
5	Mustard	Raised bed planting	50	50	76
6	Maize	Raised Bed Planting	70	70	79
7	Wheat	Community Irrigation	20	20	09
8	Wheat	Nutrient expert/green seeker based nutrient management	25	25	19
9	Potato	Potato based farming system	3	3	07
Total			623	623	771

Performance validation on yield and economics of wheat under different interventions during Rabi 2022-23

Village name	Crop	Variety*	Intervention	Demonstration (Acre)	No of Beneficiaries	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B:C Ratio	
						Demo	Farmers practice	Demo	Farmers practice	Demo	Farmers practice	Demo	Farmers practice
Dumri	Wheat	HD -2967	Zero tillage/ Line Sowing	34	40	50	39	69	64	56053	28627	2.25	1.57
		DBW -252		21	25	53	39	68	64	62098	28627	2.39	1.57
		DBW-187		11	15	50	39	66	64	56053	28627	2.25	1.57
		DBW -39		0	0	46	39	62	64	47993	28627	2.07	1.57
		DBW 252	Raised Bed Planting/ZT/ Line Sowing	20	23	51	39	66	64	55870	28627	2.19	1.57
		HD -2967	Community Irrigation										
		DBW 252	Nutrient expert/green seeker based nutrient management	5	7	52	39	69	64	57885	28627	2.23	1.57
	Mustard	Pusa Mustard	Raised bed planting/ Line Sowing	20	23	18	15	37	32	47803	31188	2.33	1.81
	Maize	SMH 5533	Raised bed planting/ Line Sowing	24	37	69	60	109	98	77807	53213	2.52	1.90
	Lentil	IPL 316	Zero Tillage/ Line Sowing	13	17	11	8	16	12	31977	14590	2.33	1.56
	Maize+ Potato	SMH 5533+ K. Bahar	Intercropping	9	11	335*	316	302	270	233558	201704	3.20	2.77
	Potato	Kufri Bahar	Potato based farming system	0.6	2	270	258	193	172	129898	96531	2.51	1.88
Total/Average				157.6	200	67.00	81.00	96.09	88.00	77908.64	51726.18	2.39	1.76
Dharhara	Wheat	HD -2967	Zero tillage/ Line Sowing	22	27	49	38	68	63	54038	26612	2.21	1.53
		DBW -252		12	15	51	38	67	63	58068	26612	2.30	1.53
		DBW-187		13	18	48	38	65	63	52023	26612	2.16	1.53
		DBW -39		5	8	45	38	62	63	45978	26612	2.03	1.53
		DBW 252	Raised Bed Planting/ZT/ Line Sowing	10	14	50	38	67	63	53855	26612	2.15	1.53
		HD -2967	Community Irrigation	0	-	-	-	-	-	-	-	-	-
		DBW 252	Nutrient expert/green seeker based nutrient management	5	8	51	38	68	63	55870	26612	2.19	1.53
	Mustard	Pusa Mustard	Raised bed planting/ Line Sowing	10	17	16	13	36	32	38503	21888	2.07	1.57
	Maize	SMH 5533	Raised bed planting/ Line Sowing	15	20	67	58	109	98	74067	49473	2.45	1.84
	Lentil	IPL 316	Zero Tillage/ Line Sowing	15	22	10	7	15	12	26877	9490	2.11	1.36
	Maize+ Potato	SMH 5533+ K. Bahar	Intercropping	6	7	326	311	298	270	233558	201704	3.20	2.77
	Potato	K Bahar	Potato based farming system	0.6	2	262	255	192	172	123498	94131	2.43	1.86
Total/Average				113.6	158	89	79	95	87	74212	48760	2.30	1.69
Samhota	Wheat	HD -2967	Zero tillage/ Line Sowing	24	31	50	38.2	68	63	56053	27015	2.25	1.54
		DBW -252		14.75	18	49	38.2	67	63	54038	27015	2.21	1.54
		DBW-187		20	24	48	38.2	65	63	52023	27015	2.16	1.54
		DBW -39		5	8	46	38.2	62	63	47993	27015	2.07	1.54
		DBW 252	Raised Bed Planting/ZT/ Line Sowing	10	13	49	38.2	67	63	51840	27015	2.11	1.54
		HD -2967	Community Irrigation	0	-	-	-	-	-	-	-	-	-

		DBW 252	Nutrient expert/green seeker based nutrient management	5	9	50	38.2	68	63	53855	27015	2.15	1.54
	Mustard	Pusa Mustard	Raised bed planting/ Line Sowing	5	8	17	14	36	32	43153	26538	2.20	1.69
	Maize	SMH 5533	Raised bed planting/ Line Sowing	10.5	14	68	60	109	98	75937	53213	2.48	1.90
	Lentil	IPL 316	Zero Tillage/ Line Sowing	6	8	10	8	15	12	26877	14590	2.11	1.56
	Maize+ Potato	SMH 5533+ K. Bahar	Intercropping	5	9	330	319	298	270	233558	201704	3.20	2.77
	Potato	K Bahar	Potato based farming system	0.6	2	265	259	192	172	125898	97331	2.46	1.89
	Total/Average			105.85	144	89.27	80.84	95.18	87.45	74656.82	50496.91	2.31	1.73
Manjiwaliya	Wheat	HD -2967	Zero tillage/ Line Sowing	25.25	31	52	39	68	64	60083	28627	2.34	1.57
		DBW -252		12	18	50	39	67	64	56053	28627	2.25	1.57
		DBW-187		16.5	21	49	39	65	64	54038	28627	2.21	1.57
		DBW -39		1.5	3	46	39	62	64	47993	28627	2.07	1.57
		DBW 252	Raised Bed Planting/ZT/ Line Sowing	25	31	51	39	67	64	55870	28627	2.19	1.57
		HD -2967	Community Irrigation	15	9	51	39	67	64	55870	28627	2.19	1.57
		DBW 252	Nutrient expert/green seeker based nutrient management	5	7	50	39	68	64	53855	28627	2.15	1.57
	Mustard	Pusa Mustard	Raised bed planting/ Line Sowing	10	17	18	14	36	32	47803	26538	2.33	1.69
	Maize	SMH 5533	Raised bed planting/ Line Sowing	9	11	70	61	109	98	79677	55083	2.56	1.93
	Lentil	IPL 316	Zero Tillage/ Line Sowing	10	16	11	8	15	12	31977	14590	2.33	1.56
	Maize+ Potato	SMH 5533+ K. Bahar	Intercropping	4	6	332	322	298	270	233558	201704	3.20	2.77
	Potato	K Bahar	Potato based farming system	0.6	2	267	260	192	172	127498	98131	2.48	1.89
	Total/Average			133.85	172	87.25	78.17	92.83	86.00	75356.25	49702.92	2.36	1.74
Ramnagar	Wheat	HD -2967	Zero tillage/ Line Sowing	21	27	52	39	68	64	60083	28627	2.34	1.57
		DBW -252		14	16	50	39	67	64	56053	28627	2.25	1.57
		DBW-187		22	29	49	39	65	64	54038	28627	2.21	1.57
		DBW -39		6	10	46	39	62	64	47993	28627	2.07	1.57
		DBW 252	Raised Bed Planting/ZT/ Line Sowing	10	13	51	39	67	64	55870	28627	2.19	1.57
		HD -2967	Community Irrigation	0									
		DBW 252	Nutrient expert/green seeker based nutrient management	5	9	50	39	68	64	53855	28627	2.15	1.57
	Mustard	Pusa Mustard	Raised bed planting/ Line Sowing	5	8	18	14	36	32	47803	26538	2.33	1.69
	Maize	SMH 5533	Raised bed planting/ Line Sowing	11.5	17	70	61	109	98	79677	55083	2.56	1.93
	Lentil	IPL 316	Zero Tillage/ Line Sowing	6	8	11	8	15	12	31977	14590	2.33	1.56
	Maize+ Potato	SMH 5533+ K. Bahar	Intercropping	6	9	332	322	298	270	233558	201704	3.20	2.77
	Potato	K Bahar	Potato based farming system	0.6	2	267	260	192	172	127498	98131	2.48	1.89
	Total/Average			107.1	148	90.55	81.73	95.18	88.00	77127.73	51618.91	2.37	1.75

Photograph of Rabi Season 2022-23



Zero Tillage of Wheat



Potato plots planting through potato planter



Raised bed planted Mustard



Harvesting and data collection of Wheat

Summer Season 2023					
Sr.no.	Crop	Technology	Targeted area (Acre)	Achieved area (Acre)	No. of Beneficiary
1	Green gram	Zero tillage	225	225	273
2	-	Laser land Leveller (LLL)	100	36	33

Performance validation on yield and economics of Green gram under CRA interventions during Summer 2023

Village name	Crop	Variety	Intervention	Demonstration (Acre)	No of Beneficiaries	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B:C Ratio	
						Demo	Farmers practice	Demo	Farmers practice	Demo	Farmers practice	Demo	Farmers practice
Dumari	GreenGram	Virat	Zero Tillage/Line Sowing	42	51	10.2	7.1	23.4	17	52206	25185.5	2.94	1.84
Dharhara				36	43	9.1	7.1	22	17	43675.5	25185.5	2.62	1.84
Samhota				43	52	10	7.1	22.8	17	50655	25185.5	2.88	1.84
Manjiwaliya				54	68	10.1	7.1	23.4	17	51430.5	25185.5	2.91	1.84
Ramnagar				50	59	10.2	7.1	24.1	17	52206	25185.5	2.94	1.84
Total/Average				225	273	9.92	7.1	23.14	17	50034.6	25185.5	2.86	1.84



Kharif Season 2023					
Sr.no.	Crop	Technological Interventions	Targeted area (Acre)	Achieved area (Acre)	No. of Beneficiaries
1	Paddy	Direct Seeded Rice (ZT+Drum seede+Broadcasting)	300	300	358
2	Arhar	Raised bed planting	50	50	65
3	Maize + Arhar	Intercropping	70	70	82
4	Paddy	Alternate wetting/ drying irrigation	60	60	68
5	Paddy	Water harvesting & field bunding	40	40	45
6	Maize	Raised Bed Planting	30	30	35
7	Paddy	NE/green seeker based nutrient management	25	25	32
8	Paddy	Community Irrigation	20	20	09
9	Millets (Ragi, Kauni & Til)	Raised bed planting/Line Sowing/Transplanting	25	25	31
Total			595	620	725

Performance validation on yield and economics of Rice under different interventions during Kharif 2023

Crop	Variety	Technology	Area Demonstrated (Acre)	No of Beneficiaries	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B:C Ratio	
					Demo	Local check	Demo	Local check	Demo	Local check	Demo	Local check
RICE	R. Mahsuri	Direct Seeded Rice (ZT+Drum seede+Broadcasting)	35	44	39.0	35.9	45.65	46.1	60900	35805	2.19	1.37
	Rajshree	Direct Seeded Rice (ZT+Drum seede+Broadcasting)	60	70	40.0	35.9	48.2	46.1	65260	35805	2.17	1.37
	R.Mahsuri	Water harvesting & field bunding in rice	40	45	40.4	35.9	49.13	46.1	64625	35805	2.14	1.37
	R. Neelam	Direct Seeded Rice (ZT+Drum seede+Broadcasting)	5	7	39.8	35.9	45.78	46.1	58735	35805	2.11	1.37
	Rajshree	Direct Seeded Rice (ZT+Drum seede+Broadcasting)	70	80	38.1	35.9	50.25	46.1	53749	35805	2.40	1.37
	R.Neelam	Alternate wetting/ drying irrigation in rice	60	68	40.0	35.9	46.28	46.1	59475	35805	2.16	1.37
	R.Neelam	Direct Seeded Rice (ZT+Drum seede+Broadcasting)	75	88	39.1	35.9	42.88	46.1	38284.25	35805	1.96	1.37

	Rajshree	Direct Seeded Rice (ZT+Drum seeder+Broadcasting)	55	65	38.9	35.9	46.11	46.1	63650	35805	2.02	1.37
	R. Mahsuri	Community Irrigation	15	9	42.2	35.9	51.2	46.1	72065	35805	2.44	1.37
	R. Neelam	Nutrient expert/green seeker based nutrient management	25	33	40.8	35.9	50.35	46.1	67480	35805	2.30	1.37
Total/ Average			440	509	39.83	35.9	47.583	46.1	60422	35805	2.19	1.37

Kharif season 2023 yield and economics of another crops												
Crop	Variety	Technology	Area Demonstrated (Acre)	No of Beneficiaries	Grain yield (q/ha)		Straw yield (q/ha)		Net Return (INR)		B:C Ratio	
					Demo	Local check	Demo	Local check	Demo	Local check	Demo	Local check
Maize	Shaktiman 5	Raised bed	30	47	67.4	60	51.7	42.5	78942	58594	2.11	1.89
Arhar	Rajendra Arhar-1	Raised bed	50	66	13	11	51	48	64749	33655	2.59	1.8
Arhar+Maize	Rajendra Arhar-1+Shaktiman 5	Intercropping	70	85	80.4	70	102.7	90.5	143691.4	92249.4	2.35	1.78
Total/ Average			150	198	53.60	47.00	68.47	60.33	95794.27	61499.60	2.35	1.82





Intercropping Maize+Arhar



Raised bed planting of Arhar



Harvesting and Data collection of Rice

CRA Long Term Cropping System Experiment (LTCSE) at KVK farm

P.no	Adopted Cropping Systems	Plot Size(ha)	Kharif		Rabi		Summer	
			Variety	Productivity (q/ha)	Variety	Productivity (q/ha)	Variety	Productivity (q/ha)
1	Rice (DSR) - Wheat (ZT) - Mung bean	0.14	R. Mahsuri	42	HD 2967	54	Virat	10
2	Ragi - Maize - Mung bean	0.14	RAU 8	12	SMW 5533	69	Virat	09
3	Maize - Potato - Mung bean	0.14	Shaktiman 5	67	K.Bahar	234	Virat	11
4	Arhar + Maize - Kharif Arhar Standing- Mung bean	0.14	R. Arhar 1+ Shaktiman 5	75	-	-	Virat	11
5	Arhar - Kharif Arhar Standing - Mung bean	0.14	R. Arhar 1	16	-	-	Virat	12
6	Rice - Wheat (RBP) - Mung bean	0.14	Rajshree	40	HD 2967	53	Virat	10
7	Rice (Drum Seeded)- Lentil (ZT) - Mung bean	0.14	Rajshree	37	IPM 316	13	Virat	11
8	Rice - Mustard (RBP) - Mung bean	0.14	Rajshree	38	R. Suflaam	20	Virat	10
9	Rice - Potato + Maize (Intercropping) - Mung bean	0.14	R. Neelam	45	K.Bahar +SMW 5533	294	Virat	9
10	Rice - Wheat (ZT) - Mung bean	0.14	Rajshree	42	DBW 252	55	Virat	9.4
Total/Average		1.4		41.4		87		10.24

Capacity building (Year 2022-23)

S. No.	Details of the Program	No. of events	Male	Female	No. of Beneficiaries
1.	Training programs	29	1123	361	1513
2.	Field Days	5	123	24	147
3.	Exposure visits/Travelling Seminars	1	60	0	60
Total		35	1306	385	1720

Capacity building Program



Farmers Training/ Kisan Ghosti

11.14.2 Technology for Doubling the farmers income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1.	<i>In situ</i> moisture conservation through plastic mulching	• Enhance the healthy growth of tomato plant. • Reduces the weeding cost of farmers, plastic mulching control the 100% weed. • Saving the two irrigations.	252460	21	
2.	Integrated nutrient management (INM) in banana	• INM synchronizes the nutrient demand of the crop with nutrient supply from native and applied sources. • Provides balanced nutrition to crops and minimizes the antagonistic effects resulting from hidden deficiencies and nutrient imbalance. • Promoting carbon sequestration, reducing nutrient losses to ground and	338460	85	

		surface water bodies and to atmosphere.			
3.	Fish farming through bio- flock	• Reduces the need for water exchange and water usage in aquaculture systems • Helps in maintaining the water quality which reduces water treatment expenses for farmers. • Capable to remove nitrogen in cases of high biological oxygen demand (BOD) and presence of organic matter in water.	150000 (5 units)	18	
4.	Protected capsicum cultivation	• Provides the better growing environment for plants. • Protects from rain, wind, high temperatures and minimizes the damage of insect pests and diseases thereby improving the quality and yield. • Facilitates year round production coupled with	682250	7	

		yield enhancement by 2-3 times compared to open cultivation.			
5.	Zero tillage technology in rice-wheat cropping	• It reduces the cost of cultivation, also reduce the soil erosion, crop duration and irrigation requirement and weed effect. • Minimum disturbances of soil that helps in carbon sequestration. • Early/timely sowing of crop enhanced the crop productivity.	85000	300	
7.	Round year production of button mushroom under air/non air condition chamber	• Due to high nutritional value of mushroom the farmers are interested to cultivate in both off and on season. • Its medicinal effects on tumour, hepatitis B, diabetes and various other diseases. • Mushroom cultivation consists of six steps i.e., composting, fertilizing, spawning, casing, pinning and cropping.	425000	90	
8.	Pond based Integrated	• Increase economic yield per unit area per unit	171486	15	

	Farming System	time by virtue of intensification of crop, fish and allied enterprises • Use waste material of one component at the least cost. Thus reduction of cost of production and form the linkage of utilization of waste material, elimination of middleman interference in most input used. Working out net profit is increased. • Due to interaction of enterprises with crops, fish, eggs, milk, mushroom they provides flow of money to the farmer round the year.			
9.	Composite fish culture	• It involves cultivation of multiple species of fish in the same system, which can increase productivity and income of farmers. • Recycle nutrients within the system, leading to improved water quality	385350	145	

		and reduced waste. • Increase the resilience of a fish farming operation, as different species may have different tolerance levels to environmental stressors.			
10.	Intercropping of potato + maize	• Intercropping of potato with maize crops improves the land equivalent ratio, increases ground cover. • Additional income from companion crops. • Stability of production, and maximization of products, soil fertility and pest control.	205150	1800	
12.	Crop diversification through high yielding mustard (cv. <i>Rajendra suphalam</i>)	• A shift from less profitable cropping system to more profitable cropping system. • Enhanced the net returns and overall system productivity of a farm.	56020	785	

13.	Inclusion of green gram in rice-wheat cropping	• Green gram as a leguminous crop uses as green manuring for soil resilience. • It improves the humus, organic carbon, and nitrogen and soil microbial growth in soil. • It has a capacity to fix the atmospheric nitrogen. • Being a short duration crop, it fits well in many intensive crop rotations.	102898	685	
14.	Organic potato cultivation	• Organic produces are environmentally healthy by reducing the level of pollution. • Organic cultivation helps in keeping agricultural production at a sustainable level. • Also reduces the cost of production and also ultimately improves the soil health.	113000	15	

15.	Poultry farming	- The main purpose of Poultry Farming is the production of eggs, meat, etc. - Poultry Farming is among one of those businesses which give high-profit. - Don't require more capital. As it only needs less investment.	583709	62	
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11.14.3 Experimental trial on State Varietal Trial - 2023, DRPCA, Pusa

Date of sowing	Date of harvesting	Treatment nos.	Yield range (q/ha)	Remarks
4 April 2023	12-25 June 2023	06	7.90-9.60	Investigator: Dr. Abhay Kumar Singh, Head KVK, Saran. Co-Investigator(s): - Dr. Ratul Moni Ram, SMS (Plant Protection) - Dr. Vijay Kumar, PA (Lab. Tech.)
 				

b) Experimental trial on water productivity at paddy field

Date of sowing	Date of harvesting	Treatment nos.	
05 August 2023	25 November 2023	12	Investigator: Dr. Abhay Kumar Singh, Head KVK, Saran. Co-Investigator(s): - Dr. Ratul Moni Ram, SMS (Plant Protection) - Dr. S.S. Patel SMS (PHT) - Dr. Vijay Kumar, PA (Lab. Tech.)



12 Good quality action photographs with caption in JPEG FORMAT SEPARATELY of overall achievements of KVK during the year (best 10)





Training and Kisan Gosthi conducted by KVK Saran on different thematic area





Distribution of critical inputs to farmers clientele





Presence of KVK Saran in Kisan Mela, Workshop





KVK Saran presence in organisation of various programmes like Farmer Scientist interaction, Poshan Vatika Programme, PM Kisan Samman Nidhi,



Diagnostic field visit by KVK Saran Team



Dignitaries visit at KVK Saran



Exposure visit in KVK Saran





Various activities by KVK Saran Team
